11 May 2021

Shahab Sanjari created group «E127: Proton capture on 118Te in ESR with members Shahab Sanjari, Sergey Litvinov, Yuri Litvinov, Helmut Weick and Jan Glorius

Shahab Sanjari changed group title to «E127: Proton capture on 118Te in $${\rm ESR}{\rm >}$$

Shahab Sanjari converted this group to a supergroup

E127: Proton capture on 118Te converted a basic group to this supergroup «E127: Proton capture on 118Te in ESR»

Laszlo Varga removed Laszlo Varga



Laszlo Varga Hi Everybody!

Shahab Sanjari changed group photo



Ragandeep joined group by link from Group

Rene Reifarth joined group by link from Group

Laszlo Varga invited Michele Sguazzin

Michele Sguazzin invited Cobus Swartz

Sophia Dellmann joined group by link from Group

Beatriz joined group by link from Group

Ruijiu Chen joined group by link from Group

12 May 2021

Marialuisa Aliotta joined group by link from Group



Jan Glorius

There is a serious power failure in ESR just now. No vacuum readouts. Maybe we have a bigger problem... Let's see

Yuri Litvinov Oooh(((15:58
Sergey Litvinov black out	16:09

15:49

15:55

13 May 2021

UP	Ulrich Popp The pumps of the gas target are also switched off. I write Nikos to switch them on.	10:22 0
JG	Jan Glorius At least from the ring vacuum it looks not so bad There are sor sensors out of order now. But the rest shows pretty low pressure 1e-10mbar	
	Also the laser cooling experiment was running over night again.	10:27
YL	Yuri Litvinov Jan, you are at GSI!? Do you need any help?	13:28
IG	Jan Glorius	13:30
	Yes, i am in the lab. Cobus is around and helping me, don't worry	′ 👍
R	Ragandeep I'm also at GSI. If you need any help help, do let me know)	15:10
LV	Laszlo Varga I am also available 0–24, just text me and i come on short notice	15:13
	14 May 2021	
UP	Ulrich Popp We have a cooling problem in the ESR	21:26
	The Cooling Station is switched off because of the blackout	21:27
	It is in the ESR	21:27
	cave	21:27
JG	Jan Glorius Target cooling?	21:27
UP	Ulrich Popp Pump cooling for the target	21:28
	Yuri Litvinov	21:28
YL	How serious it is? We have about a week before we need the targe	et
UP	Ulrich Popp Our problem is that during the next 2hours all pumps will be swir off	21:30 tched
YL	Yuri Litvinov O-oooh	21:30

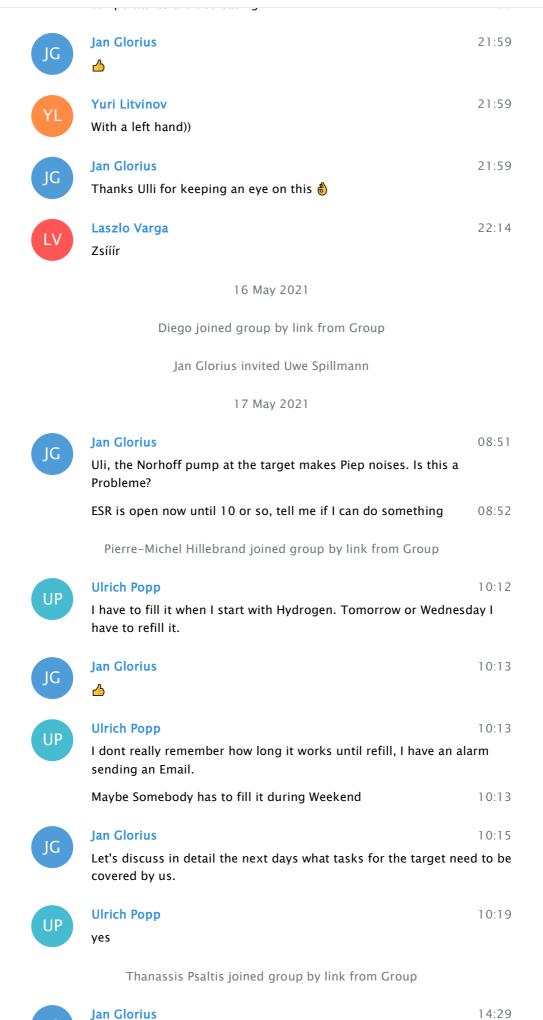
Ulrich Popp

JG	Jan Glorius What can we do? Enter cave and restart cooling I guess.	21:31
YL	Yuri Litvinov Can you prevent this?	21:31
UP	Ulrich Popp not remote	21:32
	Someone has to go in and to switch on the heat exchanger (Wärmetauscherstation).	21:32
JG	Jan Glorius Where is the switch? Directly at the new water cooling cycle?	21:33
YL	Yuri Litvinov We can send somebody from the Danyal's shift!?	21:35
UP	Ulrich Popp If it doesnt start you have to open it and manually switch on the f maybe it is off. It looks like this: https://m.media-amazon.com/i /I/41TT-QpSUJL.jpg	
	the station is on the left side when you go in the inner area . It is connected with black isolated water pipes.	21:37
	The only device connected with this black isolated pipes there	21:38
JG	Jan Glorius Okay, so we need someone who does it. Open ESR and push butto Can we reach danyals people?	21:39 on.
UP	Ulrich Popp There is a button (i think black) for switch on and a red one for sw off. But if it doesnt switch on, you have to open it (big screwdrive you can see it behind the (plexi) glass. ;)	
YL	Yuri Litvinov Uli, can you call HKR and give instructions to to Danyal. He is at 2	21:42 245
UP	Ulrich Popp ok!!	21:42
	danyal tries it :)	21:46
JG	Jan Glorius Oh ha The guy with the two left hands 🧝	21:47
	Laszlo Varga	21:48

Ulrich Popp

6

LV



	G	
, J	<u> </u>	
	-	

14:29

We will have our first meeting today at 15:30 CEST. Follow the link and go to the "meeting" break-out session.

Kenncode: e127

YL	Yuri Litvinov	17:03
	Resonance measurement will take place tomorrow around noon,	when
	the cooler is taken into operation. TCap will be needed.	
	Ruijiu Chen	17:04
RC	ok	
		17.05
	when is noon? 12:00?	17:05
	Yuri Litvinov	17:06
YL	Yes, around lunch time.	
SL	Sergey Litvinov	17:06
JL	In reply to this message	
	you have to be ready from 9-00 :))	
	Ruijiu Chen	17:06
RC	ok	17.00
	ŬK.	
	Ragandeep	17:24
R		
SS	Shahab Sanjari	18:56
	Sticker	
	Laszlo Varga	20:15
LV		
	18 May 2021	

Chris Griffin joined group by link from Group

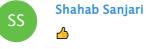
Iris Dillmann joined group by link from Group



03:48

Hi folks, do we hace daily meetings starting this week? Missed 03:49 today since it came a bit early 😌

SS	<mark>Shahab Sanjari</mark> we make a guick resonance measurement in about 45 min	11:56
	currently @HoSnoopy is fixing the target inside ESR	11:57
SS	Shahab Sanjari @HoSnoopy what is the status?	13:18
SS	Shahab Sanjari can we come?	13:44
UP	Ulrich Popp I refilled the liq nitrogen gas trap and the ESR is already closed	13:45
SS	<mark>Shahab Sanjari</mark> ok, we start	13:45
YL	Yuri Litvinov It will not work today(((13:46
	The time window which was available is over now there are stochastic people. Markus suggests tomorrow noon	13:47
R	Ragandeep :/	13:53
SS	Shahab Sanjari	14:08
	In reply to this message well there was no real "time window" in that sense as stochastic experts apparently started the setup while ESR was still red, and still continue. So we wait	-
YL	Yuri Litvinov I know, but the priority is undoubtedly to set up the present experiment	15:05
	Guy Leckenby joined group by link from Group	
YI	Yuri Litvinov	21:17
	01:02	



Jan Glorius

21:24

the cost of a factor of	L in duty cycle.
Sounds reasonable \delta	

	Sounds reasonable 👌	
YL	Yuri Litvinov There are still optimization options	21:29
JG	Jan Glorius I guess the stochastic cooling is working, when you are already accumulating?	21:34
SL	Sergey Litvinov Is stochastic cooling switching off after stacking?	21:41
YL	Yuri Litvinov Yes, it does.	21:42
	19 May 2021	
	Timo Dickel joined group by link from Group	
	Shahab Sanjari	13:34
SS	thanks to Сергей A. and Chen and Ragandeep , we did a 20 minu measurement / recording of the resonance. A	ıte
	we are finished, p-gamma may continue	13:34
	Ulrich Popp	14:43
UP	Fie Dichte in Partikel/cm ³ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	Gasjet is available. :)	14:43
YL	Yuri Litvinov Excellent!	14:43
LV	Laszlo Varga	14:44
RR	Rene Reifarth UR amazing.	14:49

Shahab Sanjari invited Nikos Petridis







 $\Gamma \lambda$

Rene Reifarth

Laszlo Varga

Hi Jan - do we have our meeting today?

Sorry we are busy with Jan now

15:42

15:43

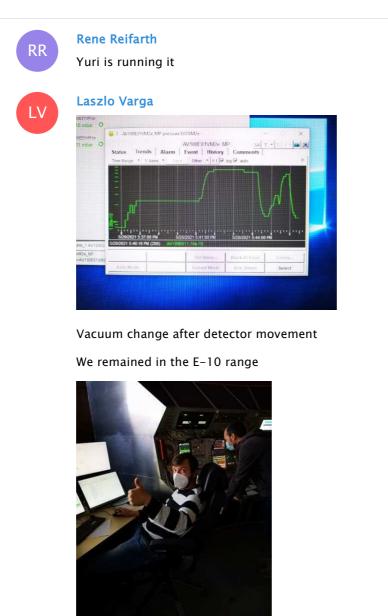
17:48

17:48

17:49

17:58

00:06



LV

L١

Current ~0.35

Sergey approves	17:58
Rene Reifarth Scary. is the H2-targe already turned on?	18:11
Laszlo Varga Quick report for the shifters: The shift for tonight (Jacobus & Michele) is canceled. The morning shift (Sofia & Mario) can prepare for a start only from 10am. In the morning we will see if the morning shift is needed a not.	
21 May 2021	
Yuri Litvinov Is detector powered off?	00:05
Laszlo Varga I remember we left at 100V	00:05

YL

Yuri Litvinov

Excellent!



Yuri Litvinov Short status:

The beam is decelerated to an orbit on the outside of the ESR Detector position corresponding to killing the beam is at -80 mm, counting from the innermost position.

This orbit cannot be used since the detector has to be placed merely 15 mm from the beam and the resultant -65 mm position disturbs the beam during the deceleration.

Unfortunately, applying a bump at the detector position disables electron cooling, which moves the beam onto a resonance due to its yet incomplete ramping down.

Various attempts to modify tunes, orbits, chromaticity were not successful: once the cooler is witched on, it destroys the beam.

Possible solutions:

1. We implemented a longer (5 s) waiting time at lowest energy to allow the cooler power supply to ramp down. This allows for reaching a cooled beam on the target and at the right position at the detector (present setting).

László took the detector into operation and there some counts. X-ray rate is about 250 Hz.

Draw back - 5 seconds waiting kills at least half of our beam.....

2. we do not switch e-cooler at all and switch the target right after slowing down is completed.

Actually there is a 100 ms delay fixed in the software, grhhh) X-ray rate is then 600 Hz.

But the beam is blown up very quickly.

May be it is possible to change the pattern such that we switch on the target and a few seconds later the cooler and use the survived beam, but this we did not test.

We can use the present setting to work on the detector but shall discuss the overall strategy ASAP.



Rene Reifarth

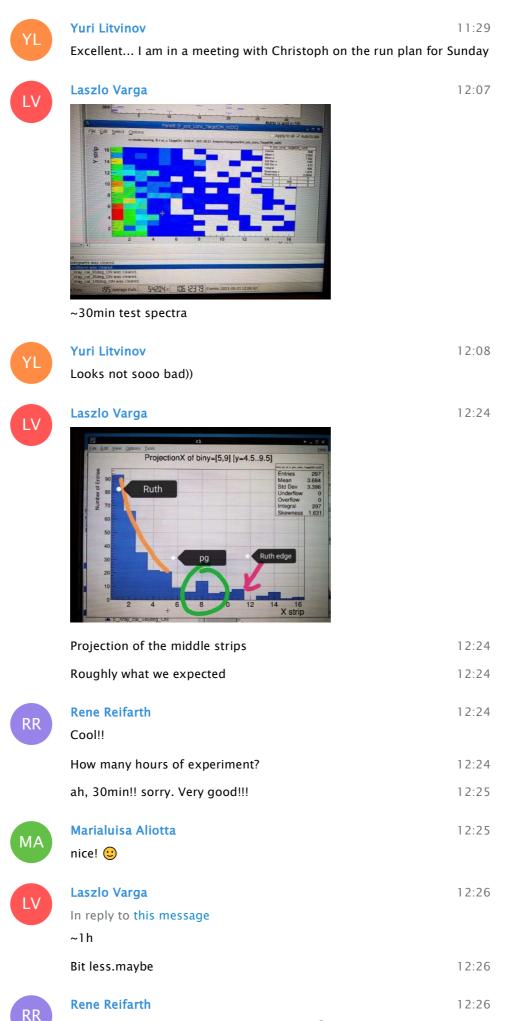
06:53

To me it sounds as if solution (1) is the most reliable one. We do loose a factor of 2, but we are in very defined situations and can probably extrapolate to the 118Te case.

YL	Yuri Litvinov We need to set up the detector and see the rates	09:36
RR	Rene Reifarth right.	09:37
G	Jan Glorius I am on it	09:50

00:09

04:00



so, after 1 d, we have decent statistics ... 😊

		12:29
RR	Rene Reifarth	12:29
	nice to see that the Rutherfor BG is rather low	
	Laszlo Varga	12:29
LV	Take.the spectra as a promising step	
	Philipp Erbacher joined group by link from Group	
	Sergey Litvinov	17:24
SL		
	suggestion to switch on the Target immediately after the deceleration	17:27
	Jan Glorius	17:28
JG	Okay, why?	
	Sergey Litvinov	17:30
SL	to not waste time. but it is only suggestion	
	there is a cooling anyway	17:30
	Laszlo Varga	17:30
LV	I am.in the messhütte about to.change	
	Jan?	17:30
	Jan Glorius	17:31
JG	Not sure we can have evt 162 in the Messhütte And not sure I f understand. But let's do it now if you can. We can correct later. If needed	
	Sergey Litvinov	17:31
SL	don't change, you can change later. sorry for confusing	
	Laszlo do not change and go back :)	17:32
	Laszlo Varga	17:32
LV	Ok, than i.leave it like it is	
	Jan Glorius	17:34
JG	How many ions do we have now at start of 7 Me?	
SL	Sergey Litvinov	17:37

1

8

6 4

2

YL

JG

LV

2 4

YL	Yuri Litvinov Sergey, we forgot to pu Also remotely. Jan is in	ut scrapers into event mode((could you help	19:39)?
SL	Sergey Litvinov I explained, hope Jan w		19:54
JG	Jan Glorius	Mean x 4.137 Mean y 7.841 Slid Dev x 3.841 Slid Dev y 4.24 Integral 4.447 Skewness x 1.468 Skewness x 0.1719 0 0 0 4.447	20:31

I think we are on a good track now. This is data from the last 45 minutes Δ

6 8 10 12 14 16 X strip

The ring setting is much better than before. Thanks to Sergey and 20:32 Markus \clubsuit

Yuri Litvinov	20:38
Very cute))	
Sergey Litvinov	20:40
In reply to this message	
what is on the plot, scattering is cut?	
In reply to this message	20:40
you are welcome, you know the price 😂 :)	
Yuri Litvinov	20:40
Nope, the yellow square in the middle is p,g	
Jan Glorius	20:41
No scraper yet. We will do it later.	
Laszlo Varga	20:42
In reply to this message	20.72
I make you a lángos 😋	
Animation	20:44
128.4 KB	

Yuri Litvinov

Jan, could you please the telegram link to Thomas.

SS	Shahab Sanjari	20:57
55	In reply to this message	
	Should I add him to the group?	
	Thomas Stöhlker joined group by link from Group	
TC	Thomas Stöhlker	21:17
TS	Thanks 👍	
	Iris Dillmann	21:54
ID	In reply to this message	
	Sergey seems to be more the Blini with caviar guy (g) You can to make langos with caviar but please dont buy the cheap stuff in the supermarket (Seehasenrogen)!!!!	
	Laszlo Varga	21:56
LV	In reply to this message	
	About caviar lángos i have never heard before, maybe once 🎯	
	I suggest it with saure sahne and cheese	21:57
	Like in the group picture	21:57
	Iris Dillmann	21:59
	https://www.google.com/url?q=https://masqueradedinner.com	
	/blog/langos&sa=U& ved=2ahUKEwi2hq3ux9vwAhXOCTQIHTF3Ax8QFjAAegQICRAB&	
	usg=A0vVaw0qYL9SreDyeyYhOsPaF_G0	
	Laszlo Varga	22:00
LV	In reply to this message	
	Hmm, the receipt was made by a Hungarian lady, but for me this unorthodox	is too
SS	Shahab Sanjari	22:05
- 22	In reply to this message	
	not vegan guys, not vegan. go green 🌳	
ID	Iris Dillmann	22:23
	@xaratustra I don't think the Pavlov dog experiment would work vegan food 🤒 😭 😭	with
	Jan Glorius	22:31
JG	We are trying to move scrapers in ESR, but they do not move. No hand and not by event Any idea? Any checkbox we might have forgotten?	t by
	We tried our RF-scraper in Egelhof position and also the "schnell scraper" behind cooler	e 22:32
	Sergey Litvinov	22:32
SL	can you make photo of the Ppos Tab?	

SL	Sergey Litvinov Press Luft Gerate	22:34
JG	Submitted by the second	22:34
	Constraint for the second seco	
	But they should move by hand, not?	22:35
UP	Ulrich Popp positionierbare Preßluftantriebe :)	22:36
JG	Jan Glorius In reply to this message	22:38
	Uli, is there any reason those drives are disconnected or so?	
SL	<mark>Sergey Litvinov</mark> Jan are you in HKR.	22:40
JG	<mark>Jan Glorius</mark> Yes	22:41
UP	Ulrich Popp try to reset them by using prophelper	22:41
SL	Sergey Litvinov Then take the phone	22:41
JG	Jan Glorius Have it	22:41
UP	Ulrich Popp ah, not reset in prophelper, do init!!	22:44
SL	Sergey Litvinov In prophelper?	22:51
JG	Jan Glorius Operators are trying to help	22:55
SL	Sergey Litvinov Managed?	23:16
JG	Jan Glorius They are moving by hand now Not yet by event	23:17

They are moving by hand now... Not yet by event

JG	Jan Glorius So, i can kill the beam clearly by hand in subchain 10. But the even mode does not move this device	23:38 ent
YL	Yuri Litvinov What do operators say?	23:39
JG	Jan Glorius They tried but have no clue about this event stuff	23:49
	22 May 2021	
JG	Jan Glorius So i guess we will run without scrapers over night. And see what done tomorrow	00:03 can be
TS	Thomas Stöhlker Puhhh	00:22
CS	<figure></figure>	05:40
YL	Yuri Litvinov Well, I can even not move them by hand((tried 2 scrapers and no moved	07:40 one
JG	<mark>Jan Glorius</mark> They did move yesterday	07:40
YL	Yuri Litvinov Uli, whom can we call from Rufbereitschaft?	07:40
	Jan, I stopped the pattern and tried 2 scrapers. No reaction(07:41
JG	Jan Glorius Well, we had to reset and init in prophelper yesterday. Then they by hand	07:42 moved
	The operators did this at the Unilac console, because their personal logins didn't give access to the devices.	07:48
UP	Ulrich Popp So you need me? I am still in bavaria 🙂	09:51
	(I am not everytime online while it is shown, because of my xmpp-telegram-transport-bot.)	09:53

ΥL Software groups were called - no errors were detected; we can move drives by hand; a girl from the software group told us that the events are in the control system; but the drives do not react on the events; next suggestion is whether the cabling is correct. We would go and look, but we do not know where the control unit is located. Uli, if you can, could you please advise us what can we do..... **Ulrich Popp** 11:02 UP If the actuators are working by hand with the control system I cannot do anything. The responsibility is at the Software group. Only if they are not working at all I maybe can do sth 11:03 **Jan Glorius** 11:04 JG Do the signals of hand and event mode come from the same source? Which device in ESR is this? 11:04 **Yuri Litvinov** ΥL Can we check somehow that the events are coming/not coming to the unit **Ulrich Popp** 11:04 UP afaik yes You can check is for example by using prohelper 11:05 it 11:05 11:06 Yuri Litvinov YL I am sitting in front of prophelper Device is found 11:06 What shall I look at 11:07 11:08 **Ulrich Popp** UP which device is it? **Yuri Litvinov** 11:09 E01DD1IG Jan Glorius 11:09 IG Egelhoff drive 1 GE01DD1IG **Ulrich Popp**

UP

VetAcc 0			
Nomen GE01DD11G			
	ek	Properties	
Default props	Read props	Write pro	ps Call props
Init of the second seco	<pre>Mediprops () rendpost ren</pre>	<pre>>> wcmdposs wcopyset wdrivecnt wentlage wevtposs() wevtposs() wevtposs2 wmstdatas() wspeed wtstposs</pre>	D11G (eqmods) = = = = = = = = = = = = = = = = = =

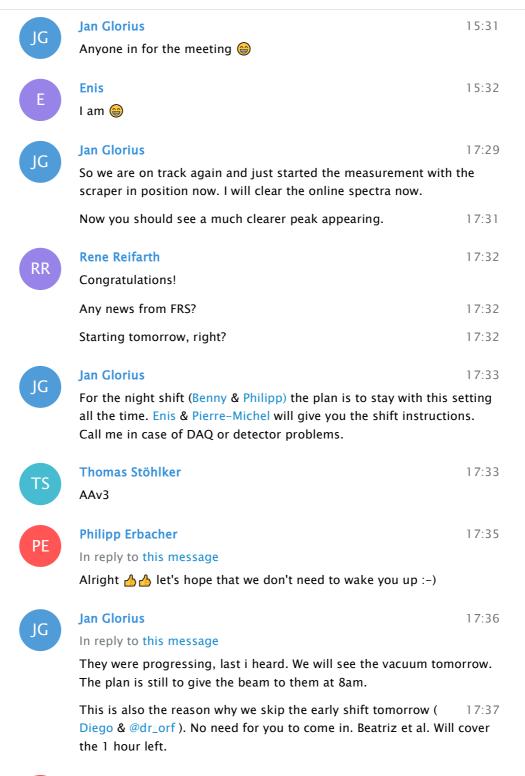
11:10

	can I drive it?	11:11
YL	Yuri Litvinov	11:12
	Sure	
JG	Jan Glorius	11:13
	It moves	
UP	Ulrich Popp	11:14
	No problem.	
	PropHelper - GE01DD1IG (eqmods.PPOS_07EqMod) + 2 X VetRec Moreen GE01001IG	11:14
	Best props Call props Lefault props A props Cinit Call props creates creations rendposs wendposs wendpost A props	
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	VrtAcc 2 L L L L L L L L L L L L L L L L L L	11:14
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	pon 5978 <u>Refresh</u> <u>3.9</u> <u>2</u> K	
	id i	
	Jan Glorius	11:15
JG	It looks like a software/timing problem	11.15
	Yuri Litvinov	11:15
YL	Can we see that the event is not coming?	
	Ulrich Popp	11:15
UP	I only can say that the actuator works.	
	Yuri Litvinov	11:15
YL	Whom do you think we can call?	-

	Jan Glorius	11:17
JG	We also see and can change the position in device control. So the events just don't reach the final drive controller or this one is do accept them.	
VI	Yuri Litvinov	11:17
	Cabling? Do we have to select events somewhere locally?	
	Is there a module where the events shall be coming?	11:18
SL	Sergey Litvinov	11:18
SL	Events i saw yesterday in the snooptool	
	Event 162 and 163	11:18
	Detector position 1 and 2	11:19
	Yuri Litvinov	11:19
YL	In control system – yes, but do they reach the control unit?	
	Jan Glorius	11:20
JG	This also affects the "schnelle scraper" GE02DS3HG. So it seems	
	more general thing	
	Sergey Litvinov	11:20
SL	May be it is not enough time to drive detector in SC 9	
	Yuri Litvinov	11:20
YL	We drive them in 11	11.20
JG	Jan Glorius We are using 10 and 11 right now	11:20
	we are using to and it right now	
SL	Sergey Litvinov	11:21
	Should be enough time	
	Yuri Litvinov	11:21
T L	11 has repetitions	
	Can this be a reason? We can drive them in 4 to test	11:22
CL	Sergey Litvinov	11:23
SL	I know only that in the past, deactivate their event mode and se whole context helped	nding
	I explained to Jan yesterday looks now, it does not work	11:24
	Yuri Litvinov	11:24
YL	I sent context at least 3 times today	
CL	Sergey Litvinov	11:25
SL	What is the miximun outer position of Egelhof can one send via control	device

	l think	11:25
YL	Yuri Litvinov	11:25
	100 mm	
UP	Ulrich Popp	11:25
	positive, not negative	
	10000 means 100mm	11:25
JG	Jan Glorius	11:25
Ju	I moved it from 100mm to -50mm	
	-59mm is max	11:25
UP	Ulrich Popp	11:26
UP	-59mm ??	
	okay	11:26
CL	Sergey Litvinov	11:26
SL	May be in the paramodi somehow wrong dimensions, which how	ever i
	checked before and it was fine	
	Jan Glorius	11:26
JG	No, it can move beyond beam axis	
	Ulsteb Denn	11.20
UP	Ulrich Popp ah, right, yes, It can move about 150mm at all, a special configur	11:26
	but it is not so good for the bello	ation,
	Jan Glorius	11:27
JG	Jan Glorius We won't need this much movement	11:27
	We won't need this much movement	
JG UP	We won't need this much movement Ulrich Popp	11:27
	We won't need this much movement	
	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov	
UP	We won't need this much movement Ulrich Popp normally they only can move 125mm at all	11:27
UP	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov	11:27
UP	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help	11:27
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper	11:27 11:27 11:29
UP	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((11:27 11:27 11:29 11:30
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one?	11:27 11:27 11:29 11:30 11:31
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one? Sergey Litvinov	11:27 11:27 11:29 11:30
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one? Sergey Litvinov Can Egelhof detector be always in?	11:27 11:27 11:29 11:30 11:31
UP YL SL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one? Sergey Litvinov Can Egelhof detector be always in? Jan Glorius	11:27 11:27 11:29 11:30 11:31
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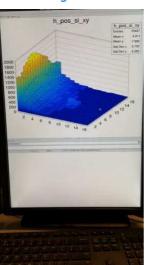
	GE02DS3HG also works.	
	~012500 (negative direction)	11:33
	Jan Glorius	11:33
JG	Did you just move it?	
	Ulrich Donn	11:33
UP	Ulrich Popp yes	11.55
	yes	
JG	Jan Glorius	11:33
	Ok	
	Ulrich Popp	11:33
UP	with prophelper	
JG	Jan Glorius To -100mm?	11:34
UP	Ulrich Popp	11:34
UP	now it is completely outside	
	I can move it to 100mm	11:34
		11.25
	Jan Glorius	11:35
JG	Jan Glorius Yes, we are trying to move by event now and where slightly conf	
JG		
	Yes, we are trying to move by event now and where slightly conf	
JG	Yes, we are trying to move by event now and where slightly conf by your movement	used
	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :)	used
	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius	used
UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :)	used
UP JC	Yes, we are trying to move by event now and where slightly confiby by your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100	11:35
UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again?	used
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp	11:35
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100	11:35 11:35 11:35 11:35
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100	Tused 11:35 11:35 11:35 11:36 11:36
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100	11:35 11:35 11:35 11:35
UP JC UP	Yes, we are trying to move by event now and where slightly confi by your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius	Tused 11:35 11:35 11:35 11:36 11:36
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UP JC UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius	Tused 11:35 11:35 11:35 11:36 11:36 11:36 11:36
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UP JC UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius ✓ Yuri Litvinov	Tused 11:35 11:35 11:35 11:36 11:36 11:36 11:36





Laszlo Varga

17:38



m (2) mice to see that this is meanwhile a well-established standard. Despite the fact that no one else can do it. m (3)

JG	Jan Glorius In reply to this message That's true, but it is really time to change the reaction now. 124Xe(p,g) is starting to make me feel bored a bit 😉	17:54
TS	Thomas Stöhlker	17:54
ID	Iris Dillmann blocking forward to see the pioneering "heaviest radioactive direct proton capture reaction" measured so far The previous "record" was 39K measured by DRAGON 1. Thanassis was a con- author, right?	bus
ТР	Thanassis Psaltis	19:19
	Nope, that experiment was the year before I started grad schoo	ol 😭
YL	Yuri Litvinov Do you have a picture with "scraper". There should be quite sor counts by now?	20:13 me
	Jan, did you set the second scraper?	20:13
JG	Jan Glorius No, i think we would need the comparison between one and tw scraper measurements to draw a conclusion. But the time is to get this until tomorrow 8.	
YL	Yuri Litvinov In reply to this message Indeed, Rene, last time we were excited to see it, and now it is special"	20:16 "nothing
	In reply to <mark>this message</mark> You are Right! Let see, may be we can do this with Te.	20:17
LV	Laszlo Varga	20:19

Last ~2.5h combined

8

20:20

20:20

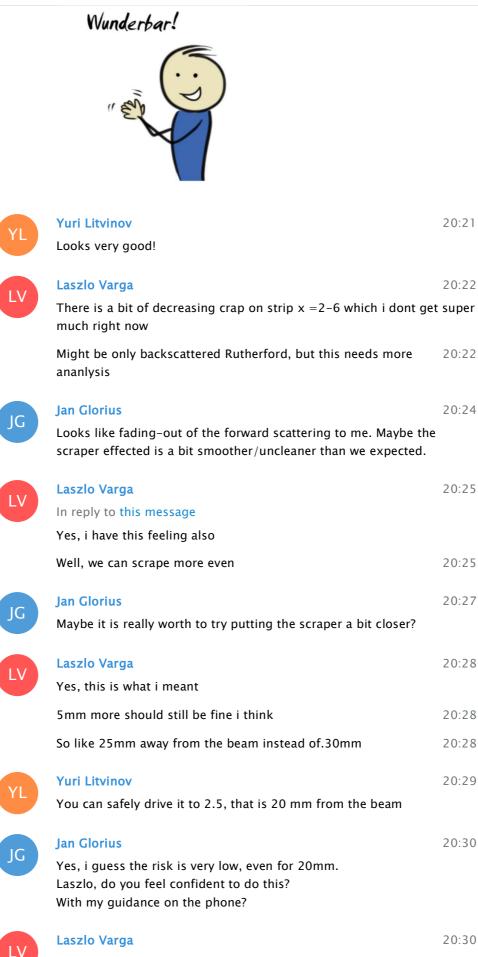


Jan Glorius

You can directly compare the cross sections of (p,g) and (p,n) here. Wow

A 2

10 12 14 16

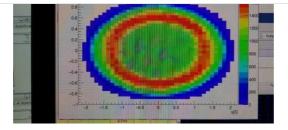


Laszlo Varga20:30I am in the office right now20:31But give me like a 10min and i am ready20:31

	Enis	20:32
E	We just stopped a run. Shall we wait until you adjusted the scrap shall we start a new one?	ers? Or
VI	Yuri Litvinov	20:32
	Pierre-Michel is there	
JG	Jan Glorius	20:32
	Ah, yes	
	Can someone pic up the phone at the ESR panels in 2 minutes?	20:33
РН	Pierre-Michel Hillebrand	20:34
	yes	
JG	Jan Glorius	20:50
	Scraper is set to 20mm distance 👍 Online server spectra are cleared	
	Laszlo Varga	21:09
LV	I just quickly checked my simulations and the pg at the scraper p	
	should reach around from 1 cm to -1 cm . So we are safe in this re	gard
UP	Ulrich Popp	21:38
U	What happend with the gastarget? It actually has ~4*E14 Particles	s/cm² ?
TS	Thomas Stöhlker	21:38
	???	
UP	Ulrich Popp	21:39
	the whole day. Was it planned? ;)	
JG	Jan Glorius	21:39
	We did nothing	
UP	Ulrich Popp	21:39
	ОК	
	aah! haha my fault	21:40
TS	Thomas Stöhlker	21:40
	was it really 4*E14?	
UP	Ulrich Popp	21:40
	wrong gas was switched. All correct, 1*E14.	
LV	Laszlo Varga	21:41
	We didnt see change in the online monitor	
	Remained 1e14	21:41

TS	Thomas Stöhlker	21:42
	ahhh 😉	
UP	Ulrich Popp	21:42
	yes. 1*E14. All correct.	
тс	Thomas Stöhlker	21:46
	this is really remarkable. Such high density and such a stable ope Really great!	ration.
	Laszlo Varga	21:57
LV	In reply to this message	
	A quick question to the pn. Since it is visible in our spectrum alres should not we aim for the measurement of it as well at 7MeV? For maybe we should move the detector like 2 strips (0.6cm) away fro beam to completely catch all pn events	r.this
	Jan Glorius	21:58
JG	What does the simulation say, how big is the cone theoretically?	21.90
	Laszlo Varga	21:59
	This i have to simulate right now. About 7mev pn i didnt dream b	efore
	But judging from the histogram i would say two.more strips	22:00
	To be safe	22:00
	Jan Glorius	22:03
JU	Well, i guess, you can move it if really want. However, one cannot the shape visible at this statistics	trust
	Personally, i think we can extract the (p,n) cross section in the cu position.	rrent
	Laszlo Varga	22:08
LV	So	
	I quickly made a simulation. It says that 1 more strip movement would be maybe enough to.cover completely	22:10
	But now we are much sensitive range with the simulation also. Just above the pn threshold	22:10
	So the uncertainty is hard to tell	22:11
	Even with the current position we should be pretty much good	22:11
	Jan Glorius	22:13
JG	Yes, and we can simply add all runs with this Detector position for analysis. Even when the scraper was moved.	or
	Laszlo Varga	22:13
LV	Hmm	
	I just checked the pn at the scraping position and it is exctly 2cm	22:14

away from the axis



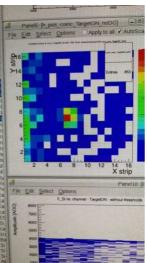
For.the g.s.	22:16
Jan Glorius	22:17
Mh, shall we go to 25mm scraper position? Now or never.	

22:18



JG

Laszlo Varga



	The background now of course improved for the pg, it seems	22:18
	I would move to 25mm with the scraper	22:19
JG	Jan Glorius Then do it. Pierre-Michel should know what to do.	22:20
LV	Laszlo Varga Yes	22:20
JG	Jan Glorius It should be 7.5 in absolute position then, right?	22:24
LV	Laszlo Varga Yes	22:25
	We just did	22:26
	And started a new run	22:26
	Cleared the online si.map	22:26
JG	Jan Glorius	22:26

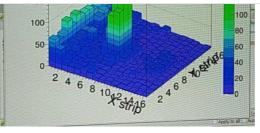
RR

ദ്ദ

Rene Reifarth 23:18 You think, the small area to the right of (p,g) is (p,n)? The area is so constrained because we are close to threshold, hence almost no recoil?

LV	In reply to this message	23.20
	Yes, it should be the pn since the center of the pg and the pn distributions were typically 2cm away from each other	
	Which is the case seemingly for what we see	23:20
RR	Rene Reifarth	23:21
LV	Laszlo Varga Regarding the size of the pn as you said, we are closer to.treshold hence smaller cone	23:21 d
	23 May 2021	
В	Beatriz We have given the beam to the FRS.	08:09
JG	Jan Glorius A nothing to report from the night?	08:09
PE	Philipp Erbacher Some of the magnets shut off during the shift change at about 23 Worked again after a reset :-) the rest of the night was rather uneventful	08:11 3:00.
MS	Michele Sguazzin	08:11
JG	Jan Glorius	08:12
В	Beatriz Our 1h shift went very smoothly!	08:12
RR	Rene Reifarth In reply to this message (p,g) is crystal clear. Not sure, if we can trust the (p,n) yet. Very n	09:09 ice!
TS	Thomas Stöhlker wow, looks really very nice!	09:10
MS	Michele Sguazzin	09:44

220 7



To better see the (p,n)

В	Beatriz	09:51
Ь	The Ge are being filled automatically now. Should we write or loo something? I think we should write the weight right?	k at
TS	Thomas Stöhlker	09:52
	usually one should stop the acq since filling may produce a lot of	noice
В	Beatriz Yes we stopped the DAQ at 8:00 already.	09:53
JG	Jan Glorius I did filling remotely 1 hour ago. Don't worry, all is done	09:53
TS	Thomas Stöhlker	09:54
В	Beatriz Ok!	09:54
RC	Ruijiu Chen I am on duty today. I am sorry i will be 20 min late.	14:58
LV	Laszlo Varga Arent your shift cancelled?	14:59
RC	Ruijiu Chen I don't know. I did not receive any emails about this.	15:00
JG	Jan Glorius I am sorry, i didn't communicate today.	15:13
	All shifts until Monday night are cancelled for now.	15:13
	Sorry again, Ruijiu & Alex.	15:14
E	Enis In reply to this message Sorry just to be clear, the shifts continue from Monday 23:00 onv	15:16 vards?
JG	Jan Glorius Yes, exactly. Sorry for being not clear.	15:21

Sergey Litvinov

JG	Jan Glorius	15:23
	I also won't be able to join the meeting today. Maybe someone correport on FRS status?	ould
CI	Sergey Litvinov	15:23
SL	Can one send the link for the meeting?	
	Jan Glorius	15:25
JG	In reply to this message	
	This one	
DC	Ruijiu Chen	15:28
RC	there is no beam and nobody in HKR. what is wrong with experim	nent?
CS	Cobus Swartz	15:33
CS	In reply to this message	
	We're having the zoom meeting now.	
DC	Ruijiu Chen	15:33
RC	Alex and i got it. No problem. we are going to leave. Do we have meeting today? If there is a meeting could you please send me the link?	
meeting today? If there is a meetin, could you please send me the lir		2 IIIIK:
CC	Cobus Swartz	15:34
CS	In reply to this message	
	The link is in Jan's last message.	
DC	Ruijiu Chen	15:35
RC	Sticker	
DC	Ruijiu Chen	16:00
RC	This is the status of N2 cooling sysyem. One of the detectot is go minimum.	ing to
		16:00

should we fill the Ge detector or target?

max: 0kg min: -3k

0deg (black, 12h filling 35deg (red)

15deg (gree 24h filling

Thomas Stöhlker

	Jan Glorius	16:06
JG	No need to fill! I did this morning, Laszlo will do this evening	
	The weight is not very well calibrated0.8kg is full for the 90 degree detector	16:07
ТС	Thomas Stöhlker	16:07
	but the contols should work	
RC	Ruijiu Chen	16:08
	what about the LN for target?	
JG	Jan Glorius	16:09
JU	Don't worry, we have things under control. Target was filled late yesterday, Laszlo will fill it later.	
	Helmut Weick	16:10
HW	Hi Yuri, Are you on Zoom of E127?	
VI	Yuri Litvinov	16:11
	Was a few min ago	
	I'll be at GSI in 15 min	16:11
	Ruijiu Chen	16:14
RC	ok. We got it. We are going to leave HKR. Thanks.	
	Jan Glorius	16:15
JG	👍 thanks Ruijiu	
	Ruijiu Chen	16:23
RC	You are welcome.	
JG	Jan Glorius	16:57
	In reply to this message	
	Just to clarify, we cancel the shifts because the FRS is being tune us. This was the original plan and is actually a good sign.	d for
YI	Yuri Litvinov	16:59
	Yeap, but I would like to ask the morning and afternoon shifts of tomorrow to be ready to come in case we are faster tonight. We v cancel/confirm in the night	
	The beam at the FRS is well advanced	16:59
	Surely, to get it to the ESR will take some time	17:00
IG	Jan Glorius	18:32
	I have to apologize, there was a misunderstanding between Yuri	and
	me. For now we cancel the shifts until tomorrow 7:00am.	
	The shifts tomorrow morning and afterwards might be needed in optimistic forecast.	an

ΥL

@Jan, could you please check whether 120I is a serious contaminant for us.

	Yuri Litvinov	04:44
	We have 118Te at 7AMeV!	
	There will be the morning shift!	04:44
	Sergey Litvinov	04:45
	Jan should come immediately 🙂	
íL	Yuri Litvinov	04:46
	About 2e5 particles per shot stored.	
	Yuri Litvinov	05:12
	The beam at DSSSD is at -25 mm (absolute). This is very much in The question is whether we shall remove the bump and move it mm as before?	
	We leave now! What is left is to decide on bumps, set up the target overlap, and run	05:21
	In case there are complications with setting the bumps, please call me	05:22
	Jan Glorius	05:26
G	How do I set the bumps, which devices to use?	
	Yuri Litvinov	05:29
L	When can you come?	05.25
	I can wait still a bit	05:29
	Jan Glorius	05:29
G	In reply to this message	
	Which charge state? 52+?	
	Yuri Litvinov	05:30
5	52+	
	Please forget this - we have a clean beam	05:30
	HF picks up very selectively only our line	05:30
	May be, we shall make a short TCAP run to have an overall pictu	re 05:31
	RuiJiu and Ragandeep, could you record a few cycles. This will make many nice figures	05:32
	Jan Glorius	05:32
G	Okay, i am at GSI in about 35 minutes.	
	Yuri Litvinov	05:33
L	Excellent!	00.00

Ragandeep

.... . + 110T 27 D

E127: Proton capture on 118Te		
RC	Ruijiu Chen sorry. I just see the message.	07:51
RR	Rene Reifarth In reply to this message	08:13
	Congrats!! This is the first true FAIR (Phase-0) experiment in our campaign. Dreaming of it since 2007 😊	(p,g)
DD	Rene Reifarth	08:50
RR	If I'm not mistaken, we should see around 0.2 cts / s for a cross s of 10 mb. ~5000 cts /shift @ 10 mb	section
	100 50 100 50	08:55
	Here is what we saw with Xe back in '16:	
JG	Jan Glorius	09:18
	Now, we are sharing beam with HTD. This seems to have some influence, beam is barely visible on the schottky at 7mev and the stacking steps are also not very clear to see on the Trafo anymore	e.
	We still struggle to make a target overlap	09:18
JG	Jan Glorius	11:18
	We are in production with 118Te now. However the conditions are perfectly optimized. Target overlapp is there, since we see xray p emerging. but the rate per second is negligible and we cannot op the overlapp.	eaks
	The parallel beam to HTD costs us at least half of the intensity But this was expected i guess.	11:19
RR	Rene Reifarth "parasitic" mode nomen est omen.	11:21
		11:21
	Jan Glorius	11:22
JG	I have hope that tomorrow we will get another optimizing look by ESR guys and for stoc. Cooling. Then let's see 🖔	/ our
	Ulrich Popp	11:23
UP	Is it too difficult to adjust the beamline in the target section?	

	Ruijiu Chen	11:24
RC	Maybe the emittance of secondary beam is much larger than the	
	primary beam.	

Jan Glorius

	This is similar to last year	
UP	Ulrich Popp	11:32
	ah okay	
	Yuri Litvinov	11:39
YL	Jan, how much do we get per spill?	
PH	Pierre-Michel Hillebrand	11:39
	would it help to change the time bining of your rate histograms?	
	Yuri Litvinov	11:39
YL	You can do e.g. 20 stacks	
	We are not parasitic, and shall talk to Daniel if the conditions are	11.40
	impossible.	11.40
JG	Jan Glorius	11:40
	In reply to this message	
	We start at 8e5 and have 1.1e6 after 5 stacks.	
	Laszlo Varga	11:42
LV	In reply to this message	
	If we can trust in lassie. We are at the sensitivity limit	
	Yuri Litvinov	11:42
YL	This would mean 6e4 per stack, which is a factor >3 as without th	
	HTD	
JG	Jan Glorius	11:43
	In reply to this message	I
	Yes, but we always have 2 HTD spills in-between our injections ar have to wait a bit. This makes stacking a bit less efficient.	ia
YL	Yuri Litvinov	11:45
	When did they start? Before I left, we had reasonable conditions, r	ignt?
	Jan Glorius	11:45
JG	They started at 8 am or so.	
	The difference is obvious, they switched off Shortly and the good condition was back	11:46
	In reply to this message	11:46
	Daniel said he would be available for the noon meeting today.	
	Yuri Litvinov	11:47
YL	Ok	11.77
	In reply to this message	11:47
	Green	

11:48

Grrrh

RIGHT. INCOM IS THE PALASILE HULLING/ KINING THE HOST (US)

TS	Thomas Stöhlker Is there a noon meeting today?	12:01
JG	Jan Glorius In reply to this message A non-official one I think. But yes	12:03
YL	Yuri Litvinov I sent an email to Daniel and Christian let see what can be done	12:09 e.
	Last year, CBM was running parallel to 205Tl experiment and we had to switch them off during accumulation phase. This was fine afterwards we measured for several hours, but now((((
YL	Yuri Litvinov One full day today and another one on Saturday or so	12:29
	CBM has presently 8 seconds extraction time. If they increase to 10 seconds, do you think our request gets in?	12:32
JG	Jan Glorius In reply to this message I do not understand this issue too well i have to say We need to	12:34
	compare their extraction time to our time between the injections?	
YL	Yuri Litvinov CBM will change now to 10 seconds. Please have a look whether t still get 2 spills in between our stacks.	12:34 hey
JG	Jan Glorius Will do	12:35
	With 20 stacks we reached 1.65e6	12:35
YL	Yuri Litvinov So 6e5 in 15 stacks, not much (I compare to the number you w above)	12:37 rote
TS	Thomas Stöhlker Puhhh, sounds like CRYRING	12:39
JG	Jan Clorius	13:24

	in the middle they switched off	
DD	Rene Reifarth	13:46
RR	That is a very clear plot. Thanks Jan.	
	Jan Glorius	13:48
JG	Props go to Mario, i just made the foto. 🎯	
	Rene Reifarth	13:48
RR	Dream team. 😊 👍	
	Thomas Stöhlker	13:57
TS	Looks really great	
	Yuri Litvinov	14:06
YL	Jan, you should first decide on the position of dass	
	Dsssd	14:06
	Without bump, the overall storage was better, with the bump we were entering into a resonance	14:07
	The bump was very close to 1:1, that is 1 mm bump corresponding to 1 mm beam shift	14:08
	Jan Glorius	14:09
JG	Okay, we will try reducing the bump from -20mm to -10mm and	see
	Jan Glorius	14:53
JG	@HoSnoopy we have a new status of the trap in ESR	
	H1275:-/e127/mscf_settings\$ Warning: Potential Security Risk Ahead - Mozilla Firefox (on atpnuc002) tential Security × + Image: Comparison of the security in the security is the security in the security in the security in the security is the security in the security in the security in the security is the security in the security in the security in the security is the security in the security in the security is the security in the security in the security is the security in the security in the security is the security in the security in the security is the security in the security in the security in the security is the security in the security in the security is the security in the secu	14:53
	Shall we go in and check?	14:53
UP	Ulrich Popp "Kühlfallenstatus am 24.05.2021 um 17:43: Alles ok, Pumpe ist in Standby"	17:45 m
	l just came home :)	17:46
	Pierre-Michel Hillebrand	17:46
PH	Should we do something ??	
	Fortes & Lakowana at Bulk Mark 200 ABRELED, JBARK 2001 Control to the second	17:46

urity Risk Ahead - Mozilla r
 Warning: Protential Security Rock Ahead
 Modified Firefax (on at proceed)

 ing: Potential Security ×
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 → C* û
 0 & https://ulpc24.gsi.de/ga/get/data/
 ··· ♡ ★

 IN
 0 & d*
 Kühlfallenstatus am 24.05.2021 um 17:41: Unbekannter Status 6

UP	Ulrich Popp maybe it is empty, but not yet critical? ;-]	17:46
РН	Pierre-Michel Hillebrand Better now!	17:47
	Warning: Botential Security Hisk Absail - Medilla Findex (en algner/602) Arning: Potential Security X + + + + - C C C C Image: Solution of the status and 24.05.2021 um 17/46: Allos ok, Pumpe ist im Standby	17:47
UP	Ulrich Popp The problem is that norhof never gave us an "API" for its pump, s had to look by try and error	17:47 o we
	tomorrow I have to refill it	17:47
	maybe somebody earlier	17:48
РН	Pierre-Michel Hillebrand how do we know?	17:48
UP	Ulrich Popp if it is peeping inside you have to refill it ;)	17:48
	normally it should be monitored	17:49
JG	Jan Glorius this is the big dewar which fills a smaller one for the trap, right?	18:43
	We have a similar dewar outside ESR, which is full and could be quickly exchanged.	18:44
PH	Pierre-Michel Hillebrand I hear a peep every 30 s from outside ESR, is it that?	18:50
JG	Jan Glorius Yes, that's it	18:51
	I guess we need to exchange it.	18:51
LV	Laszlo Varga Should i go as well , Pierre-Michael?	18:52
JG	Jan Glorius It's not complicated. 1. Have ESR opened in TSG, with the big gate	18:55

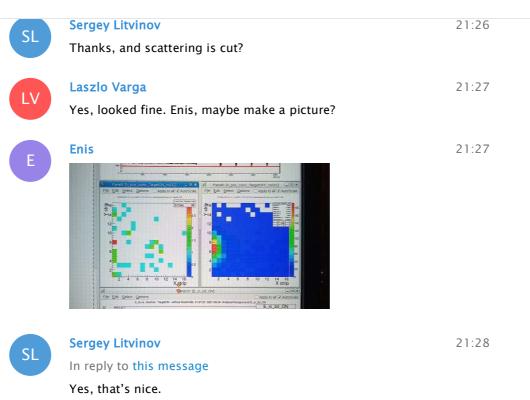
2. Take the big dewar outside the lab to inside.(The one with the

	needed) 5. Slowly lower the pump into the new dewar and seal it.	
	@ulli: any reset needed?	
YL	Yuri Litvinov	18:55
	Please talk to the operators on how it is the best to do TSG	
	We need Strahlenschutz Rufbereitschaft	18:56
JG	Jan Glorius	18:56
	Mh, yes	
	Ulrich Popp	19:03
UP	maybe switch off and on (green button)	
	Jan Glorius	19:13
JG	Is this going to be okay, are you guys handling this? In case of Problems i can come in, But only around/after 21:00	
	Ulrich Popp	21:05
UP	"Kühlfallenstatus am 24.05.2021 um 20:49: Pumpe pumpt gerad	e"
	"Kühlfallenstatus am 24.05.2021 um 21:04: Alles ok, Pumpe ist im Standby"	21:06
	Sounds good :)	21:06
	Laszlo Varga	21:06
LV	20:21 Alles ok, pumpe ist im Standby	
	Density is again e14	21:06
	In reply to this message	21:07
	Sorrry i meant 21:06	
UP	Ulrich Popp	21:08
The hydrogen goes all the time through the nozzle, there is alway jet, but it is interrupted by a small sheet of metal		ys a
JG	Jan Glorius	21:09
Ju	In reply to this message	
	Nice job Pierre-Michel & Laszlo 🝐 Thank you very much and sorry for the dewar confusion, my fault	: <u>@</u>
SL	Sergey Litvinov	21:24
SL	What about data? Do you see pgamma?	
	Laszlo Varga	21:24
LV	In reply to this message	
	I remember like 7counts	

21:25

Enis

Already enough for a phd



25 May 2021



Laszlo Varga

Laszlo Varga

I just quickly analysed what is the optimal setting regarding the number of stacking (and measurement time). To do so i looked at the number of counts in the KREC peak measured with the 90deg HPGe. I couldnt exclude all effects, but it seems that the 10 and 20 stacking with 11sec targetON phase are rpughly the same. However, the 30stacks + 3x5.5sec targetON phase is convincingly better, roughly like 1.5times more counts than in the previous two.cases. not sure though is this the effect of somehing else.

In conclusion, i would.keep measuring with the current settings, 00:41 so 30stack, 3x5.5sec targetON

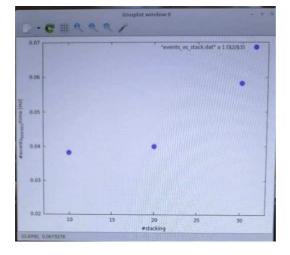


Rene Reifarth00:42Thanks for the swift analysis!

Ho many counts did you see? 00:43

00:43





00:40

RR	ah, here it comes. 😊 thanks.	
LV	Laszlo Varga Y-axis KREC counts at 90deg /measurement time	00:44
	Roughly	00:44
	I didnt look precisely when was beam and when not	00:44
CS	Cobus Swartz Okay. I guess then we'll stick to the same settings.	00:47
LV	Laszlo Varga Yes, please continue like this	00:47
	At least i dont see reason to change anything else	00:48
RR	Rene Reifarth Yes. 😊	00:48
CS	Cobus Swartz Noted. We now see 11 counts in the p,gamma region.	00:52
LV	Laszlo Varga 👍 keep collecting 🙂	00:53
	Can u make a picture?	00:53
MS	Hither Schwarzen	00:54
LV	Laszlo Varga In reply to this message Ah, the histos were cleaned for the 30stack settings, right.	00:55
	?	00:55
CS	Cobus Swartz I believe so. We weren't here at the time though.	00:55
LV	Laszlo Varga Anyhow, we have the data 🙂	00:56
E	Enis In reply to this message Yes they were	00:56

CS	Cobus Swartz I agree. We'll post another picture in the morning.	00:57
LV	Laszlo Varga	00:57
RR	Rene Reifarth only, if you see (p,g) !!! 😂	00:58
CS	<figure></figure>	06:44
D	Diego Hi all. I just arrived at GSI for the shift, but I probably got lost. W the right building? First at time at GSI	06:58 hich is
OF	Oliver Forstner Where are you now?	07:07
MS	Michele Sguazzin Hi Diego, if you need we can meet at the welcome office	07:08
D	Diego At the registration	07:08
	Yes please 🤤	07:09
	Thank you!	07:09
OF	Oliver Forstner In reply to this message Hi Diego, Did you manage or still lost?	07:18
RR	Rene Reifarth In reply to this message Amazing – it is so clean, one can basically count by hand. ~25 ct hours duty-cycle strikes back	08:24 s / 6
	Yuri Litvinov	13:17

Do we need to bring anything into the ESR? It can be open for 1 hour.

Robert Grisenti joined group by link from Group

RG	Robert Grisenti Some more patience still optimizing	18:15
RG	Robert Grisenti All quadrupols have failed right now! The on-call service has to come	18:43 18:45
RR	Rene Reifarth	18:48
SS	Shahab Sanjari can take up to 30 min	18:48
	Юрий A. says, not up to, but at least Robert is wondering	18:49 18:51
SL	Sergey Litvinov who is in hkr now?	18:53
SS	<mark>Shahab Sanjari</mark> mr bombastik	18:53
SL	Sergey Litvinov what kind of error&	18:54
	?	18:54
SS	Shahab Sanjari The electrical current which is needed to supply the magnets is	18:54 cut
SL	Sergey Litvinov thanks	18:59
SS	Shahab Sanjari	19:33

We discovered,.... Frankfurt!

SS

του πανε το πηριονε γουτ μποτοςπομ σκιπς 👼, βατ πιαεεά

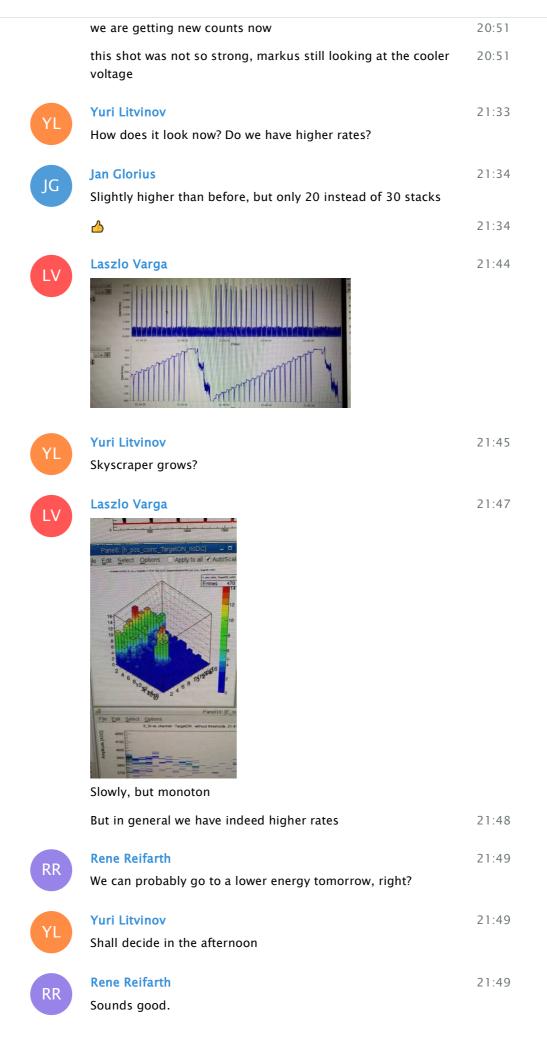
Shahab Sanjari	19:37
sometimes you gotta be quick with results	
the magnet guy just arrived.	19:42
he is taking a look at ESR magnets	19:42
	19:44



TS	Thomas Stöhlker I like this image of Frankfurt 🌝 . Looks great \delta	19:46
RG	Robert Grisenti Quadrupoles are on again 😀	20:28
LV	Laszlo Varga Please dont start to.measure yet, xrays are getting filled with LN2 Needs 3mins roughly	20:29
RG	Robert Grisenti OK	20:30
	Let me know when you are ready	20:30
	They have to optimize anyway	20:31
LV	Laszlo Varga Xrays are filled, if possible, start the measurement. Sorry for.the I come.to.HKR	20:42 pause.
SS	<mark>Shahab Sanjari</mark> markus still working	20:43
	markus is finished	20:44
	we would now start the LMD file	20:44
LV	Laszlo Varga Ok	20:44
	Shahab Sanjari	20:45

after that I do lifetime measurements

SS

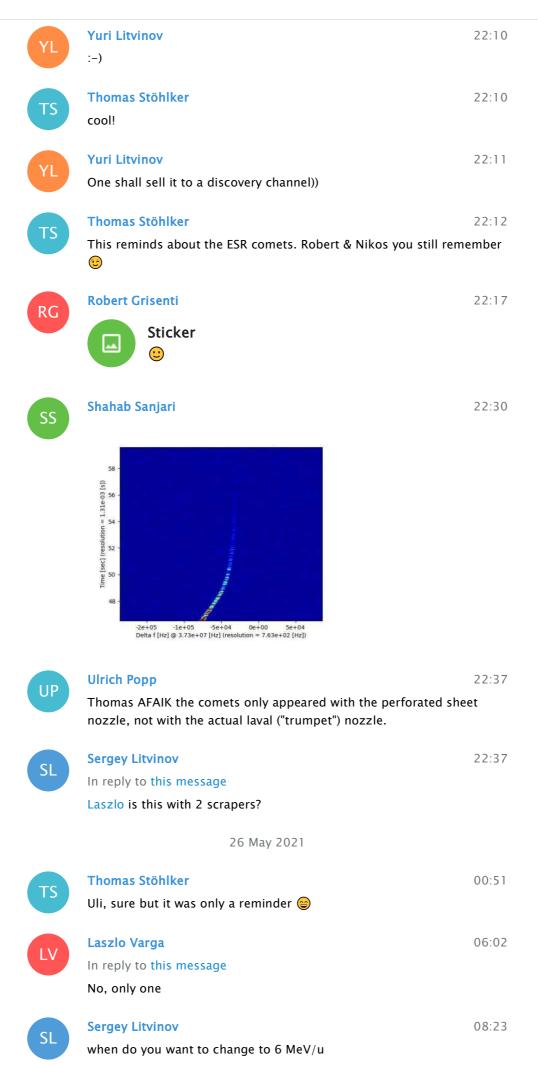


Yuri Litvinov

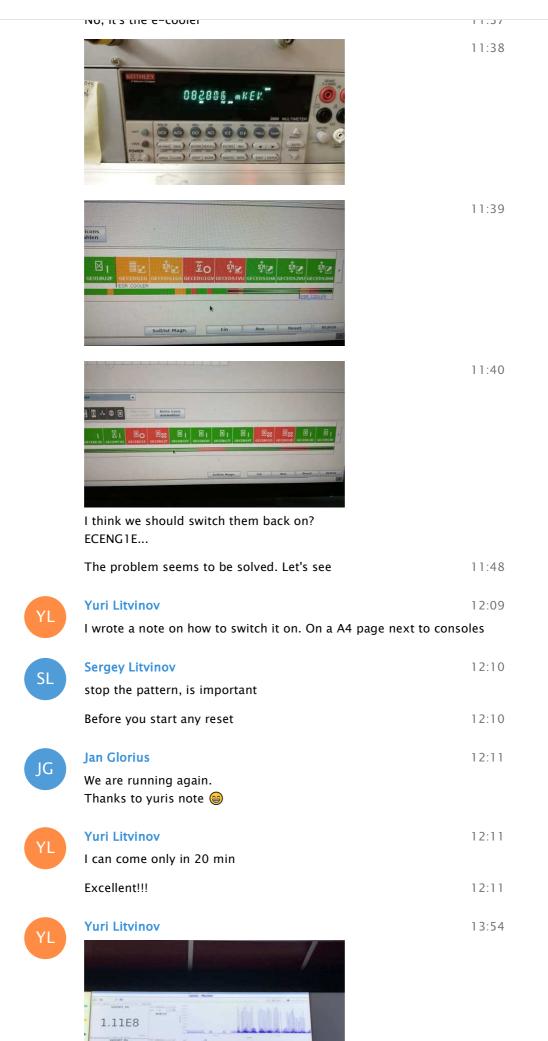
JG	Jan Glorius	21:50
RR	Rene Reifarth	21:50
YL	Yuri Litvinov Having several stacks improves the stability of the SIS intensity very stable at 3e9. Talked to operators, there is not much they ca to improve further	
RR	Rene Reifarth It's amazing. How long did it take to get the plot above?	21:55
JG	Jan Glorius I think about 20 hours, maybe less.	21:57
LV	Laszlo Varga We have now scrapers everywhere. Rutherford scraper and skysc left	21:58 raper
YL	Yuri Litvinov Today we lost nearly the entire day due to a planned 30 min intervention to SIS	22:02
TS	Thomas Stöhlker	22:03
SS	Shahab Sanjari I will stop gas target for the next 2 cycles for lifetime measureme	22:03 ents
	each cycle is about 6 minutes	22:03
	elog is update	22:04
JG	Jan Glorius Very good. Thanks	22:06
YL	Yuri Litvinov Please record also a few 410 MHz, full cycle, beautiful pictures be you can post the one you made a photo of))	22:09 May
SS	Shahab Sanjari	22:10





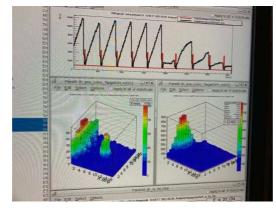


	Status: 1 h break, source filament needs to be changed.	08:32
JG	Jan Glorius @HoSnoopy do you take care of the target filling tasks until Frida	09:17 y?
UP	Ulrich Popp ah not today!	09:45
	tomorrow and friday	09:45
LV	Laszlo Varga Ok	09:45
UP	Ulrich Popp My daughter is ill and Ihave to take care of her	09:46
JG	Jan Glorius No problem, take care of your family!	09:48
UP	Ulrich Popp Target is running very good and the actuators afaik also (;).	09:50
	maybe I have to change the hydrogen bottle on friday. That maybe means less density for about 10minutes. But maybe it is e inside. This I'll see tomorrow.	09:51 nough
RR	Rene Reifarth As if you were here and taking care. 👌	09:55
JG		10:15
	250 - 300 counts	10:16
SL	Sergey Litvinov When do we go to 6 MeV	10:16
МА	Marialuisa Aliotta In reply to this message this is fantastic! congrats!	11:22
JG	Jan Glorius We have a problem with the ESR cycle. There is a huge loss after	11:35



0.00E0

The parallel operation with cave-C is not optimal... we adjusted 13:55 the timing, but the intensity is now much lower than before...



13:56

14:31

20:33



LV

JG

SL

JG

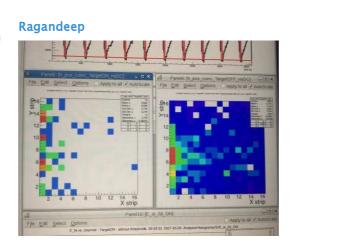
YL

JG

Thanassis Psaltis

Hallo! Could someone come pick me up from the front office? Laszlo Varga 18:33 We started to.measure at 6Mev Lets collect some statistics to see if our settings are fine 18:33 **Jan Glorius** 18:34 ⊿ 19:08 **Sergey Litvinov** cooler is down Ragandeep 19:26 Data taking started again! **Jan Glorius** 20:31 Filling is ongoing Yuri Litvinov 20:32 Do we have a spectrum already? **Jan Glorius** 20:33 Probably a bit early...





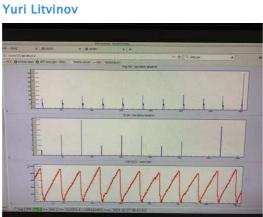
YL	Hmmm	
	Let us wait at least it looks plausible that the setting is reasonable	20:35
JG	Jan Glorius Filling is done. Please restart the data taking.	20:41
R	Ragandeep Ok	20:42
	Laszlo Varga	22:47
	Compared provide provide targets of a factor of the factor	
	4-4.5h data, still hard to see anything. but our intensities are verat esr	ry low
		22:47

In reply to this message Hard to say even	22:48
Yuri Litvinov Let us run over night and see in the morning.	22:50
Rene Reifarth	22:50

27 May 2021



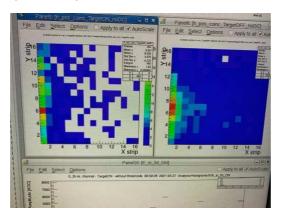
Concent + Concent + Concent + [8] X+→1



06:43

	I will move the target bump a bit	06:45
JG	Jan Glorius Yes, it's worth a try. But I thought You did yesterday	06:46
YL	<mark>Yuri Litvinov</mark> Yes, we did	06:46
	Our diagnostics was the x-ray rate	06:47
	Overall it is not yet consistent cause We have counts in the first dsssd strip	06:48

What should that then be? Backwards scattering? From what? It is 06:50 tough to say whether out "target on" and "target off" pictures are qualitatively different



06:50

Jan Glorius	06:56
Yes, this is hard now. But I guess we can only try to confirm settin and wait.	ıgs
I think we have target overlap but cross section and luminosity don't allow 10h success	06:58
Rene Reifarth	07:01
Do we see Te-x-rays during target-on?	
Yuri Litvinov	07:01
This Jan can check	
I do re-check the overlap and let it run further	07:02
Jan Glorius	07:04
In reply to this message	
We get a spectrum with the expected lines, yes.	
Rene Reifarth	07:05
Well Then there must be overlap, right?	
Do we know the position on the beam at the DSSD? Could that be different?	07:06
Yuri Litvinov	07:07

Yuri Litvinov

JG

RR

JG

RR

YL

07:07

Yes, it may well be. We thought to fine tune according to the p,g peak on the dssd))

JG	I don't believe that the position has changed much. The Si map spectrum shows	
	That Rutherford backscatter is on a comparable level than pg	07:08
VI	Yuri Litvinov	07:09
	There is always Merfi around, and it might well be that we just ne higher statistics	eed
	I will do two more steps and if no visible improvements, will let in run with set parameters	t 07:10
DD	Rene Reifarth	07:11
RR	Mmh. Can we compare the Te x-ray rate (cts per hour or so) with situation at 7 AMeV?	the
	Yuri Litvinov	07:12
YL	We have a much lower intensity at 6 AMeV, we lose too much at a second ramp	the
	Rene Reifarth	07:13
RR	Ah. I see.	
JG	Jan Glorius	07:13
50	In reply to this message	
	We shall do a direct comparison I will report as soon as I have	values
RR	Rene Reifarth	07:13
	Then this is the main problem?!	
	Very good. Thanks Jan! This seems to be the only way to draw solid conclusions.	07:14
	Yuri Litvinov	08:23
YL	We restarted the data taking	
	The overlap with the target was indeed not optimal	08:23
	By shifting the beam from -11.5 to -12.8 mm, we gained a facto of three rate on the DSSSD	r 08:24
	May be 2.5 not 3	08:24
	We adjusted the scraper	08:24
	Looking at x-ray rate (quite tough to judge) and put it from ± 1 t ± 2	o 08:25
	For setting the detector position we have no good diagnostics	08:26
DD	Rene Reifarth	08:27
RR	1 mm change in beam position should not clear the (p,g) entirely maybe it was indeed mostly the (missing) statistics	v. So

	relaxed somewhat is the edge of the Rutherford	
	Next goal is to run and see in a few hours	08:30
RR	Rene Reifarth back to "staring at the screen" again :D	08:30
YL	Yuri Litvinov We clear the plot in the online "starring screen" and restart to star	08:31 ring
RR	Rene Reifarth	08:33
YL	Yuri Litvinov We lose the beam after about 4 seconds at 6 AMeV. Probably also kind of resonance that we fought at 7.	08:52 a
JG	Jan Glorius Mh	08:52
YL	Yuri Litvinov Also, the x-ray rate is nearly independent from the number of sta	08:52 .cks
RR	Rene Reifarth In reply to this message Even without H2-target on?	08:53
YL	Yuri Litvinov We used 7 during optimization and 20 did not increase the intens	08:53 ity
	In reply to this message Yes	08:53
	With the "resonance" at 6 AMeV I cannot do much. May be Sergey can help to modify tunes a little.	08:55
	I suggest to go faster cycles for the time being until the slowing down is improved (if possible Surrey)	08:56
RR	Rene Reifarth would 5.5 AMeV be better then? (sorry for the stupid question, do understand this amazing machine all too well)	08:56 on't
YL	Yuri Litvinov Could well be, but could also be worse	08:56
RR	Rene Reifarth just thought since we were running 124Xe at 5.5 AMeV	08:57
YL	Yuri Litvinov	08:57

New control system - new reality

SL	Sergey Litvinov In reply to this message	08:58
	I cannot come today, i go to the hospital	
YL	<mark>Yuri Litvinov</mark> Oki doki	08:58
SL	Sergey Litvinov It is hard to do something with a fragment beam, unfortunately	08:58
RR	Rene Reifarth Take care Sergey There's life beyond physics.	08:59
SL	Sergey Litvinov We already discussed it with Markus, that we did not optimise the deceleration to 6 MeV but only at 7	08:59
YL	Yuri Litvinov Alvarez is down((grrrh	08:59
SL	Sergey Litvinov With fragment beam, one can see only on the Schottky line wheth more intense or not	09:00 er it is
YL	<mark>Yuri Litvinov</mark> It is understandable, Серёжа	09:00
SL	Sergey Litvinov Just for you information))	09:01
YL	Yuri Litvinov We can switch to primary beam	09:02
RR	Rene Reifarth that might be a good idea124Xe @ 6 MeV, optimize and than g back to 118Te is it feasible in terms of human-power?	09:07 0
YL	Yuri Litvinov I do not know	09:08
	FRS is rather simple, but ESR is difficult	09:09
RR	Rene Reifarth yeah - that was my main concern	09:09
	well then maybe: faster cycles now and we discuss with Sergey & Markus as soon as they have time for a meeting?	09:12
HW	Helmut Weick do you need help for FRS?	09:29

Yuri Litvinov

	Helmut Weick	09:37
HW	tell me when you want changes on FRS, good excuse to skip anot meeting.	her
RR	Rene Reifarth	09:41
	Ulrich Popp	09:45
UP	Just refilled LN2 on the ESR-roof, tomorrow a bottle change für H necessary	12 is
	Helmut Weick	12:59
HW	Error at FRS!!! Somebody removed the degrader 30min ago. I will it back in.	move
	Jan Glorius	13:06
JG	Oh Can we get a more precise time for this removal?	
YI	Yuri Litvinov	13:07
	Helmut, please add a note into logbook	
	Elog	13:07
HW	Helmut Weick	13:08
	It was already removed yesterday says the log file, whole night w other beam.	ith
	Can somebody check the Schottky and ESR cycle please, FRS was corrected 5 min ago, Now it should deliver 118Te again, before f (~24h) it was some other beam.	
	Robert Grisenti	13:14
RG		
HW	Helmut Weick	13:18
	yes, yesterday 12:30 the degrader was removed. Now stacking ge more beam accumulated.	ets
	01 11 2005001 10051 11 101 <t< th=""><th>13:21</th></t<>	13:21
	Helmut Weick	13:44
HW	actually at 13:44.	
	Jan Glorius	14:03
JC	Helmut, shall we check the degrader effect with another thicknes There should be a clear effect, if the degrader really moves. But r see nothing of this	
	Helmut Weick	14:04
HW	we can it, it is fast, but it was tested carefully with primary beam.	,
	There was difference also today, more beam was accumulated	14:06

	In reply to this message	
	Yes, but it seems not to work as expected.	
	In reply to this message	14:06
	Not really	
	Helmut Weick	14:09
HVV	we can test, just say when.	
	Jan Glorius	14:10
JG	I stopped the DAQ, let's test	
	Are you moving degraders?	14:16
	Otherwise I would restart data taking	14:17
	Helmut Weick	14:21
HW	no, only in direct contact, not by telegram.	
	Shahab Sanjari	15:08
SS	In reply to this message	
	How is this possible?	
	Last year during the E121, 10 hours measurement someone also moved something in FRS we lost vacuum quality drastically	15:09
	Helmut Weick	15:09
HW	Maybe it was in an log file is wrong, because the controller crate viset to manual mode.	was
	Shahab Sanjari	15:10
SS	Grrrr	
	We have to find a way to prevent euch mistakes	15:10
	Jan Glorius	15:12
JG	We don't get beam injected in ESR anymore. SIS shots are howeve good at 2.6e9	r still
	Can someone check FRS devices please	15:13
		15:16
	Geratetyp:	
	Is this an important magnet in ESR?	

Is this an important magnet in ESR?

Sergey Litvinov	15:24
GEIT magnets are electron spectrometer. They should be off	
but the GEOMU1 is a dipole	15:25
which should be always on	15:25

	if it is red, then important magnets are off	15:28
JG	Jan Glorius Okay, thanks. I think we are back in operation.	15:31
HW	Helmut Weick ok, FRS seems fine.	15:32
YL	Yuri Litvinov Jan, what about 15:30 meeting?	15:35
JG	Jan Glorius Sorry, we were busy at ESR panel	15:51
ID	Iris Dillmann I think we just left the meeting. Assumed you were busy. Hope yo have better news and data tomorrow 🙂	15:52 Su
UP	Ulrich Popp I just had to change the gas bottle (hydrogen). After I had to adju inlet pressure. I think it is okay now. I have to go for a meeting w needle (vaccination :))	
JG	Jan Glorius Cobus, Michele, is there a bigger problem? No beam for 30min	17:43
CS	Cobus Swartz Yes, since 17:10 it's been off at the UNILAC.	17:46
JG	Jan Glorius Okay, so the operators are working on it, very good. Thanks	17:46
CS	Cobus Swartz Just got it back.	17:47
	We have resumed data taking.	17:49
JG	Jan Glorius	17:50
RR	Rene Reifarth Do you see something in the center area of the DSSD? (p,g)	18:27
	A few counts Maybe?	18:27
CS	Cobus Swartz	18:29

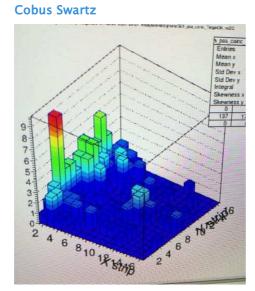
KK	Aha! Very good!	
	Thanks!	18:29
	(yesterday there was just nothing at all. Very suspicious.)	18:30
YL	Yuri Litvinov Hard work of the morning shift!	18:32
JG	<figure></figure>	18:33
YL	Yuri Litvinov Please keep an eye that the ESR on the scheme above the console blue and not red!!	18:33 e is
JG	Jan Glorius In the online go4 we have all counts for 6 MeV in the spectrum.	18:33
	Slowly it starts looking as expected	18:33
CS	Cobus Swartz EST picture on top monitor was red a moment ago.	18:35
	It's blue again now after the operator switched on Ge01KP02 to 09, and 20 to 22.	18:36
YL	Yuri Litvinov Excellent! Kp03 must stay off!	18:36
CS	Cobus Swartz Noted. In the meantime we lost the beam in the SIS.	18:38
	Beam is back.	18:49



Fyi



21:43



(p,g) appears quite clearly now.

TS	Thomas Stöhlker Wow, indeed something is growing 👍	21:45
YL	Yuri Litvinov Looks indeed promising)) if so, then the detector is closer to the than in 7 AMeV setting	21:45 beam
LV	Laszlo Varga In reply to this message By looking at the picture seems like 2mm closer	21:48
YL	Yuri Litvinov But I would not move it now. Let us take as much statistics as po	21:49 ssible.
LV	Laszlo Varga In reply to this message Yes, exactly	21:49
TS	Thomas Stöhlker Golden role:never put a solid state detector as close as 0 mm to beam. I once did but I will not tell you about the result 😥	21:49 the
YL	Yuri Litvinov Please keep an eye on the blue ESR Pictogram above the ESR con turned red, please inform the operators	21:50 sole. If



CS

Cobus Swartz

We are. It's still blue for now.

21:54

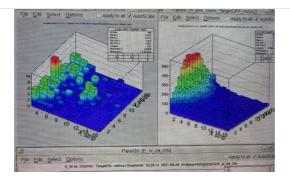
	At least the stacking looks awful	21:55
CS	Cobus Swartz We know.	21:56
	They are looking at it.	21:56
JG	Jan Glorius Ah, much better	21:59
CS	Cobus Swartz Yes, it looks much healthier now.	22:02
	28 May 2021	
SL	Sergey Litvinov KP 17-20 are off	00:11
MW	Mario Weigand Operators try to solve it	00:11
YL	Yuri Litvinov Restart the scu and send afterwards the whole context	00:12
SL	Sergey Litvinov does not help	00:12
YL	Yuri Litvinov If several are off, then the control unit hangs	00:13
	These get off pretty often	00:14
MW	Mario Weigand We have the impression since ESR is back online we don't see any events anymore. Butwe don't see the problem Anyone there?	03:00 p,g
LV	Laszlo Varga I am awake 🙂	03:01
	Well isnt the rate like less than few counts/hour?	03:02
	However, where you can judge more, I think, is the xray spectra	03:02
	If the krec peak grows at the right place	03:03
MW	Mario Weigand We didnt see ine count on the Si in one hour if Im not mistaken	03:03
LV	Laszlo Varga It means we have correct beam + target	03:03
	In reply to this message Hmm, are the histos rolling?	03:03

Mario Weigand

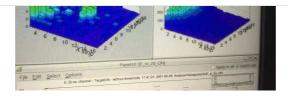
LV	Laszlo Varga And neizher the xray peaks are growing?	03:04
MW	Mario Weigand Now beam is gone	03:04
LV	Laszlo Varga Than alert the operators	03:05
	*then	03:05
MW	Mario Weigand They are already on it	03:05
LV	Laszlo Varga	03:05
	Hmm, few counts you should see anyhow on the Si spectra	03:06
	Ypu didnt see only for the target on spectra in the last hour?	03:06
	Or also nothing for the target off?	03:06
MW	Mario Weigand Not sure about that one, but nothing on Target on	03:08
LV	Laszlo Varga Do.we have good target density?	03:09
MW	Mario Weigand Yes	03:09
LV	Laszlo Varga Also on the lassie you see the esr cycle?	03:10
	I mean in the last hour	03:10
MW	Mario Weigand Yes	03:11
LV	Laszlo Varga Than in principle we should be fine hmm	03:11
	Make maybe a picture of the si on/off histos	03:12
	And the 90deg krec peak	03:12
	And look at it in a half an hour again	03:12
MW	Mario Weigand	03:13

	Laszlo Varga	03:15
	In reply to this message	
	Hmm, it is hard tp see in this. zoom the histo on the x axis mayb 3300-3600	e from
	So last 5min	03:15
	Or if there was no beam now, then maybe a bit more	03:15
MW	Mario Weigand	03:16
	Image: State Image: State State State Image: State	
	No Si on events	03:16
LV	Laszlo Varga Hmm	03:16
	esr cycle is running?	03:17
	The pattern, and on the lassie you see it accordingly?	03:18
MW	Mario Weigand We saw it while we had still beam	03:19
LV	Laszlo Varga Hmm	03:19
	Well	03:19
	If we have target and beam as well then i am out iof ideas	03:20
	Beam intensities were roughly fine?	03:20
	If have beam again, can you make a picture of the lassie monitor?	03:21
MW	Mario Weigand Ok	03:21
LV	Laszlo Varga Be sure that go4 is not frozen or something	03:27
	Maybe try to check the rate monitoe	03:27
	Monitor when we have back the beam	03:27
	In the target on phase the xray_bdt should show some numbers in the range of 110	03:28
	At least in the first second	03:28

MIW	No 😔	
LV	Laszlo Varga	03:37
	Yeah, i see iz on the online go4	
	The xray rates in the target on phase were like 60, which is at the background level super strange	03:39
	Like half an hour ago	03:39
	Mario Weigand	03:41
MW	Yes it was higher before the esr failure	
	Just getting beam back	03:41
		02.42
LV	Laszlo Varga Lets see	03:42
MW	Mario Weigand	03:44
	Now we had a target on event	
	Looks better now for some reason	03:44
	Laszlo Varga	03:45
LV	Xray rates is like 90	
	What i see at least	03:45
	We had 2 counts on the Si as well	03:45
	Mario Weigand	03:45
MW	Yes	00.10
LV	Laszlo Varga	03:45
	Maybe not pg but counts 😂	
	So	03:47
	110xray-bdtON	03:47
	Looks promising	03:47
	Mario Weigand	03:47
MW		
	Laszlo Varga	03:48
LV	Acompanied with 4 counts on the Si	03.40
	So, hopefully the problem solved itself 🙂	03:49
	Yeah, the new shoot looks good as well	03:50
MW	Mario Weigand	03:51
	I dont understand why, but apparantly it solved itself 😊	
	Yuri Litvinov	10:23
YL	Could you please post the current 3D plots	



RR	Rene Reifarth No beam right now. Had interruptions	10:24
YL	Yuri Litvinov ESR blue?	10:24
RR	Rene Reifarth Alvarez	10:25
YL	Yuri Litvinov ((10:25
RR	Rene Reifarth Longer break expected. Problem not yet located, hence no estim	10:53 nate.
YL	Yuri Litvinov grrrh grhhh	10:53
UP	Ulrich Popp https://mastodon.popps.org/system/cache/media_attachments /106/308/385/340/300/943/original/b46d3aa1f2d8b22b.jpg couldnt resist)	
LV	Laszlo Varga In reply to this message Classic 🍘	12:37
RR	Rene Reifarth No beam for the next 2-3 h (at least)	15:36
RR	Rene Reifarth beam might be back ~5:30	16:27
R	Ragandeep Beam is back 😃 🖔	16:42
YL	Yuri Litvinov One full shift(((16:43
R	Ragandeep	17:42





Rene Reifarth Nice! 17:54

Next messages

11 May 2021

Shahab Sanjari created group «E127: Proton capture on 118Te in ESR with members Shahab Sanjari, Sergey Litvinov, Yuri Litvinov, Helmut Weick and Jan Glorius

Shahab Sanjari changed group title to «E127: Proton capture on 118Te in $${\rm ESR}{\rm >}$$

Shahab Sanjari converted this group to a supergroup

E127: Proton capture on 118Te converted a basic group to this supergroup «E127: Proton capture on 118Te in ESR»

Laszlo Varga removed Laszlo Varga



Laszlo Varga Hi Everybody!

Shahab Sanjari changed group photo



Ragandeep joined group by link from Group

Rene Reifarth joined group by link from Group

Laszlo Varga invited Michele Sguazzin

Michele Sguazzin invited Cobus Swartz

Sophia Dellmann joined group by link from Group

Beatriz joined group by link from Group

Ruijiu Chen joined group by link from Group

12 May 2021

Marialuisa Aliotta joined group by link from Group



Jan Glorius

There is a serious power failure in ESR just now. No vacuum readouts. Maybe we have a bigger problem... Let's see

Yuri Litvinov Oooh(((15:58
Sergey Litvinov black out	16:09

15:49

15:55

13 May 2021

UP	Ulrich Popp The pumps of the gas target are also switched off. I write Nikos to switch them on.	10:22 0			
JG	Jan Glorius At least from the ring vacuum it looks not so bad There are sor sensors out of order now. But the rest shows pretty low pressure 1e-10mbar				
	Also the laser cooling experiment was running over night again.	10:27			
YL	Yuri Litvinov Jan, you are at GSI!? Do you need any help?	13:28			
IG	Jan Glorius	13:30			
	Yes, i am in the lab. Cobus is around and helping me, don't worry	′ 👍			
R	Ragandeep I'm also at GSI. If you need any help help, do let me know)	15:10			
LV	Laszlo Varga I am also available 0–24, just text me and i come on short notice	15:13			
	14 May 2021				
UP	Ulrich Popp We have a cooling problem in the ESR	21:26			
	The Cooling Station is switched off because of the blackout	21:27			
	It is in the ESR	21:27			
	cave	21:27			
JG	Jan Glorius Target cooling?	21:27			
UP	Ulrich Popp Pump cooling for the target	21:28			
	Yuri Litvinov	21:28			
YL	How serious it is? We have about a week before we need the targe	et			
UP	Ulrich Popp Our problem is that during the next 2hours all pumps will be swir off	21:30 tched			
YL	Yuri Litvinov O-oooh	21:30			

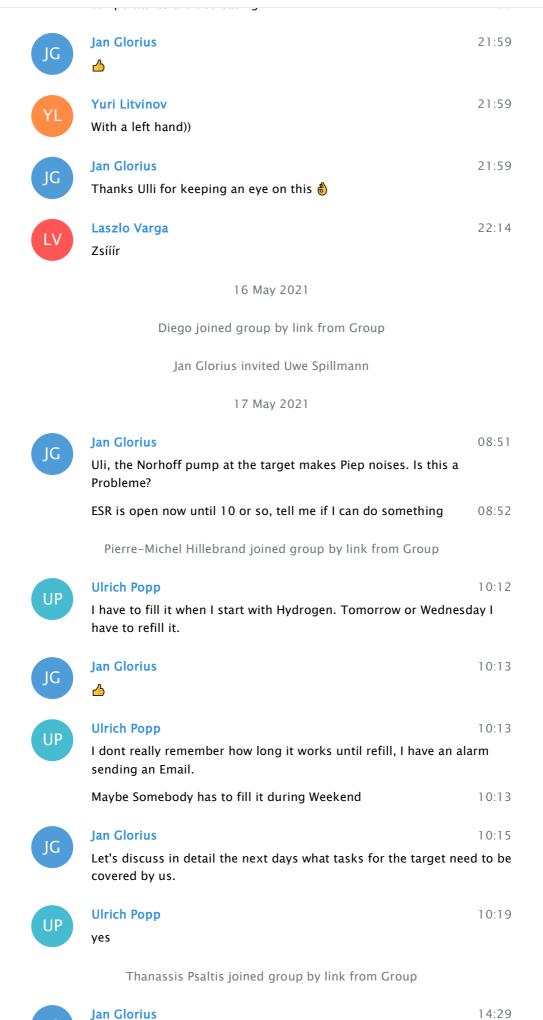
Ulrich Popp

JG	Jan Glorius What can we do? Enter cave and restart cooling I guess.	21:31
YL	Yuri Litvinov Can you prevent this?	21:31
UP	Ulrich Popp not remote	21:32
	Someone has to go in and to switch on the heat exchanger (Wärmetauscherstation).	21:32
JG	Jan Glorius Where is the switch? Directly at the new water cooling cycle?	21:33
YL	Yuri Litvinov We can send somebody from the Danyal's shift!?	21:35
UP	Ulrich Popp If it doesnt start you have to open it and manually switch on the f maybe it is off. It looks like this: https://m.media-amazon.com/i /I/41TT-QpSUJL.jpg	
	the station is on the left side when you go in the inner area . It is connected with black isolated water pipes.	21:37
	The only device connected with this black isolated pipes there	21:38
JG	Jan Glorius Okay, so we need someone who does it. Open ESR and push butto Can we reach danyals people?	21:39 on.
UP	Ulrich Popp There is a button (i think black) for switch on and a red one for sw off. But if it doesnt switch on, you have to open it (big screwdrive you can see it behind the (plexi) glass. ;)	
YL	Yuri Litvinov Uli, can you call HKR and give instructions to to Danyal. He is at 2	21:42 245
UP	Ulrich Popp ok!!	21:42
	danyal tries it :)	21:46
JG	Jan Glorius Oh ha The guy with the two left hands 🧝	21:47
	Laszlo Varga	21:48

Ulrich Popp

6

LV



	G	
<u> </u>	-	

14:29

We will have our first meeting today at 15:30 CEST. Follow the link and go to the "meeting" break-out session.

Kenncode: e127

YL	Yuri Litvinov	17:03
	Resonance measurement will take place tomorrow around noon,	when
	the cooler is taken into operation. TCap will be needed.	
	Ruijiu Chen	17:04
RC	ok	
		17.05
	when is noon? 12:00?	17:05
	Yuri Litvinov	17:06
YL	Yes, around lunch time.	
SL	Sergey Litvinov	17:06
JE	In reply to this message	
	you have to be ready from 9-00 :))	
	Ruijiu Chen	17:06
RC	ok	17.00
	Ragandeep	17:24
R		
SS	Shahab Sanjari	18:56
	Sticker	
	Laszlo Varga	20:15
LV		
	18 May 2021	

Chris Griffin joined group by link from Group

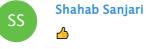
Iris Dillmann joined group by link from Group



03:48

Hi folks, do we hace daily meetings starting this week? Missed 03:49 today since it came a bit early 😌

SS	<mark>Shahab Sanjari</mark> we make a guick resonance measurement in about 45 min	11:56
	currently @HoSnoopy is fixing the target inside ESR	11:57
SS	Shahab Sanjari @HoSnoopy what is the status?	13:18
SS	Shahab Sanjari can we come?	13:44
UP	Ulrich Popp I refilled the liq nitrogen gas trap and the ESR is already closed	13:45
SS	<mark>Shahab Sanjari</mark> ok, we start	13:45
YL	Yuri Litvinov It will not work today(((13:46
	The time window which was available is over now there are stochastic people. Markus suggests tomorrow noon	13:47
R	Ragandeep :/	13:53
SS	Shahab Sanjari	14:08
	In reply to this message well there was no real "time window" in that sense as stochastic experts apparently started the setup while ESR was still red, and still continue. So we wait	-
YL	Yuri Litvinov I know, but the priority is undoubtedly to set up the present experiment	15:05
	Guy Leckenby joined group by link from Group	
YI	Yuri Litvinov	21:17
	01:02	



Jan Glorius

21:24

	L in duty cycle.
Sounds reasonable \delta	

	Sounds reasonable 👌	
YL	Yuri Litvinov There are still optimization options	21:29
JG	Jan Glorius I guess the stochastic cooling is working, when you are already accumulating?	21:34
SL	Sergey Litvinov Is stochastic cooling switching off after stacking?	21:41
YL	Yuri Litvinov Yes, it does.	21:42
	19 May 2021	
	Timo Dickel joined group by link from Group	
	Shahab Sanjari	13:34
SS	thanks to Сергей A. and Chen and Ragandeep , we did a 20 mint measurement / recording of the resonance. A	ute
	we are finished, p-gamma may continue	13:34
UP	Ulrich Popp	14:43
	Fie Dichte in Partikel/cm ³ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	Gasjet is available. :)	14:43
YL	Yuri Litvinov Excellent!	14:43
LV	Laszlo Varga	14:44
RR	Rene Reifarth UR amazing.	14:49

Shahab Sanjari invited Nikos Petridis







 $\Gamma \lambda$

Rene Reifarth

Laszlo Varga

Hi Jan - do we have our meeting today?

Sorry we are busy with Jan now

15:42

15:43

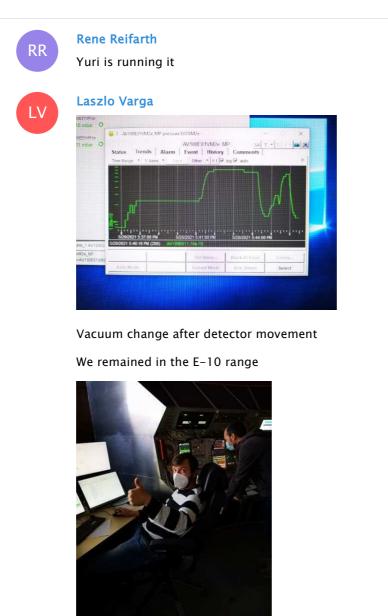
17:48

17:48

17:49

17:58

00:06



LV

L١

Current ~0.35

Sergey approves	17:58
Rene Reifarth Scary. is the H2-targe already turned on?	18:11
Laszlo Varga Quick report for the shifters: The shift for tonight (Jacobus & Michele) is canceled. The morning shift (Sofia & Mario) can prepare for a start only from 10am. In the morning we will see if the morning shift is needed a not.	
21 May 2021	
Yuri Litvinov Is detector powered off?	00:05
Laszlo Varga I remember we left at 100V	00:05

YL

Yuri Litvinov

Excellent!



Yuri Litvinov Short status:

The beam is decelerated to an orbit on the outside of the ESR Detector position corresponding to killing the beam is at -80 mm, counting from the innermost position.

This orbit cannot be used since the detector has to be placed merely 15 mm from the beam and the resultant -65 mm position disturbs the beam during the deceleration.

Unfortunately, applying a bump at the detector position disables electron cooling, which moves the beam onto a resonance due to its yet incomplete ramping down.

Various attempts to modify tunes, orbits, chromaticity were not successful: once the cooler is witched on, it destroys the beam.

Possible solutions:

1. We implemented a longer (5 s) waiting time at lowest energy to allow the cooler power supply to ramp down. This allows for reaching a cooled beam on the target and at the right position at the detector (present setting).

László took the detector into operation and there some counts. X-ray rate is about 250 Hz.

Draw back - 5 seconds waiting kills at least half of our beam.....

2. we do not switch e-cooler at all and switch the target right after slowing down is completed.

Actually there is a 100 ms delay fixed in the software, grhhh) X-ray rate is then 600 Hz.

But the beam is blown up very quickly.

May be it is possible to change the pattern such that we switch on the target and a few seconds later the cooler and use the survived beam, but this we did not test.

We can use the present setting to work on the detector but shall discuss the overall strategy ASAP.



Rene Reifarth

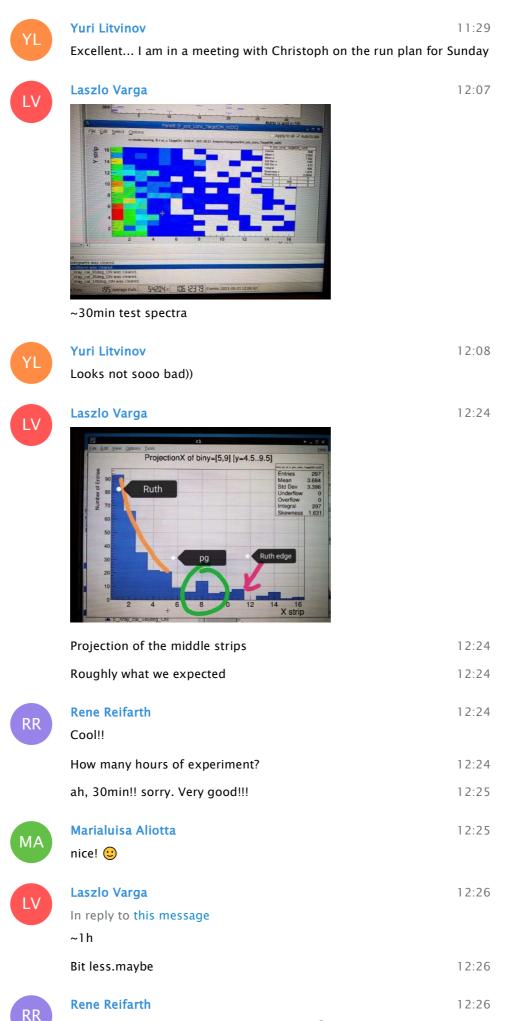
06:53

To me it sounds as if solution (1) is the most reliable one. We do loose a factor of 2, but we are in very defined situations and can probably extrapolate to the 118Te case.

YL	Yuri Litvinov We need to set up the detector and see the rates	09:36
RR	Rene Reifarth right.	09:37
G	Jan Glorius I am on it	09:50

00:09

04:00



so, after 1 d, we have decent statistics ... 😊

		12:29
RR	Rene Reifarth	12:29
	nice to see that the Rutherfor BG is rather low	
	Laszlo Varga	12:29
LV	Take.the spectra as a promising step	
	Philipp Erbacher joined group by link from Group	
	Sergey Litvinov	17:24
SL		
	suggestion to switch on the Target immediately after the deceleration	17:27
	Jan Glorius	17:28
JG	Okay, why?	
	Sergey Litvinov	17:30
SL	to not waste time. but it is only suggestion	
	there is a cooling anyway	17:30
	Laszlo Varga	17:30
LV	I am.in the messhütte about to.change	
	Jan?	17:30
	Jan Glorius	17:31
JG	Not sure we can have evt 162 in the Messhütte And not sure I f understand. But let's do it now if you can. We can correct later. If needed	
	Sergey Litvinov	17:31
SL	don't change, you can change later. sorry for confusing	
	Laszlo do not change and go back :)	17:32
	Laszlo Varga	17:32
LV	Ok, than i.leave it like it is	
	Jan Glorius	17:34
JG	How many ions do we have now at start of 7 Me?	
SL	Sergey Litvinov	17:37

1

8

6 4

2

YL

JG

LV

2 4

YL	Yuri Litvinov Sergey, we forgot to pu Also remotely. Jan is in	ut scrapers into event mode((could you help	19:39)?
SL	Sergey Litvinov I explained, hope Jan w		19:54
JG	Jan Glorius	Mean x 4.137 Mean y 7.841 Slid Dev x 3.841 Slid Dev y 4.24 Integral 4.447 Skewness x 1.468 Skewness x 0.1719 0 0 0 4.447	20:31

I think we are on a good track now. This is data from the last 45 minutes Δ

6 8 10 12 14 16 X strip

The ring setting is much better than before. Thanks to Sergey and 20:32 Markus \clubsuit

Yuri Litvinov	20:38
Very cute))	
Sergey Litvinov	20:40
In reply to this message	
what is on the plot, scattering is cut?	
In reply to this message	20:40
you are welcome, you know the price 😂 :)	
Yuri Litvinov	20:40
Nope, the yellow square in the middle is p,g	
Jan Glorius	20:41
No scraper yet. We will do it later.	
Laszlo Varga	20:42
In reply to this message	20.72
I make you a lángos 😋	
Animation	20:44
128.4 KB	

Yuri Litvinov

Jan, could you please the telegram link to Thomas.

SS	Shahab Sanjari	20:57
55	In reply to this message	
	Should I add him to the group?	
	Thomas Stöhlker joined group by link from Group	
TC	Thomas Stöhlker	21:17
TS	Thanks 👍	
	Iris Dillmann	21:54
ID	In reply to this message	
	Sergey seems to be more the Blini with caviar guy (g) You can to make langos with caviar but please dont buy the cheap stuff in the supermarket (Seehasenrogen)!!!!	
	Laszlo Varga	21:56
LV	In reply to this message	
	About caviar lángos i have never heard before, maybe once 🎯	
	I suggest it with saure sahne and cheese	21:57
	Like in the group picture	21:57
	Iris Dillmann	21:59
	https://www.google.com/url?q=https://masqueradedinner.com	
	/blog/langos&sa=U& ved=2ahUKEwi2hq3ux9vwAhXOCTQIHTF3Ax8QFjAAegQICRAB&	
	usg=A0vVaw0qYL9SreDyeyYhOsPaF_G0	
	Laszlo Varga	22:00
LV	In reply to this message	
	Hmm, the receipt was made by a Hungarian lady, but for me this unorthodox	is too
SS	Shahab Sanjari	22:05
- 22	In reply to this message	
	not vegan guys, not vegan. go green 🌳	
ID	Iris Dillmann	22:23
	@xaratustra I don't think the Pavlov dog experiment would work vegan food 😕 😭 😭	with
	Jan Glorius	22:31
JG	We are trying to move scrapers in ESR, but they do not move. No hand and not by event Any idea? Any checkbox we might have forgotten?	t by
	We tried our RF-scraper in Egelhof position and also the "schnell scraper" behind cooler	e 22:32
	Sergey Litvinov	22:32
SL	can you make photo of the Ppos Tab?	

SL	Sergey Litvinov Press Luft Gerate	22:34
JG	Submitted by the second	22:34
	Constraint for the second seco	
	But they should move by hand, not?	22:35
UP	Ulrich Popp positionierbare Preßluftantriebe :)	22:36
JG	Jan Glorius In reply to this message	22:38
	Uli, is there any reason those drives are disconnected or so?	
SL	<mark>Sergey Litvinov</mark> Jan are you in HKR.	22:40
JG	<mark>Jan Glorius</mark> Yes	22:41
UP	Ulrich Popp try to reset them by using prophelper	22:41
SL	Sergey Litvinov Then take the phone	22:41
JG	Jan Glorius Have it	22:41
UP	Ulrich Popp ah, not reset in prophelper, do init!!	22:44
SL	Sergey Litvinov In prophelper?	22:51
JG	Jan Glorius Operators are trying to help	22:55
SL	Sergey Litvinov Managed?	23:16
JG	Jan Glorius They are moving by hand now Not yet by event	23:17

They are moving by hand now... Not yet by event

JG	Jan Glorius So, i can kill the beam clearly by hand in subchain 10. But the even mode does not move this device	23:38 ent
YL	Yuri Litvinov What do operators say?	23:39
JG	Jan Glorius They tried but have no clue about this event stuff	23:49
	22 May 2021	
JG	Jan Glorius So i guess we will run without scrapers over night. And see what done tomorrow	00:03 can be
TS	Thomas Stöhlker Puhhh	00:22
CS	<figure></figure>	05:40
YL	Yuri Litvinov Well, I can even not move them by hand((tried 2 scrapers and no moved	07:40 one
JG	<mark>Jan Glorius</mark> They did move yesterday	07:40
YL	Yuri Litvinov Uli, whom can we call from Rufbereitschaft?	07:40
	Jan, I stopped the pattern and tried 2 scrapers. No reaction(07:41
JG	Jan Glorius Well, we had to reset and init in prophelper yesterday. Then they by hand	07:42 moved
	The operators did this at the Unilac console, because their personal logins didn't give access to the devices.	07:48
UP	Ulrich Popp So you need me? I am still in bavaria 🙂	09:51
	(I am not everytime online while it is shown, because of my xmpp-telegram-transport-bot.)	09:53

ΥL Software groups were called - no errors were detected; we can move drives by hand; a girl from the software group told us that the events are in the control system; but the drives do not react on the events; next suggestion is whether the cabling is correct. We would go and look, but we do not know where the control unit is located. Uli, if you can, could you please advise us what can we do..... **Ulrich Popp** 11:02 UP If the actuators are working by hand with the control system I cannot do anything. The responsibility is at the Software group. Only if they are not working at all I maybe can do sth 11:03 **Jan Glorius** 11:04 JG Do the signals of hand and event mode come from the same source? Which device in ESR is this? 11:04 **Yuri Litvinov** ΥL Can we check somehow that the events are coming/not coming to the unit **Ulrich Popp** 11:04 UP afaik yes You can check is for example by using prohelper 11:05 it 11:05 11:06 Yuri Litvinov YL I am sitting in front of prophelper Device is found 11:06 What shall I look at 11:07 11:08 **Ulrich Popp** UP which device is it? **Yuri Litvinov** 11:09 E01DD1IG Jan Glorius 11:09 IG Egelhoff drive 1 GE01DD1IG **Ulrich Popp**

UP

VetAcc 0			
Nomen GE01DD11G			
	ek	Properties	
Default props	Read props	Write pro	ps Call props
Init of the second seco	<pre>Mediprops Mediprops () rendposit rendposit rendposit rendrosit rendrosi</pre>	<pre>>> wcmdposs wcopyset wdrivecnt wentlage wevtposs() wevtposs() wevtposs2 wmstdatas() wspeed wtstposs</pre>	D11G (eqmods) = = = = = = = = = = = = = = = = = =

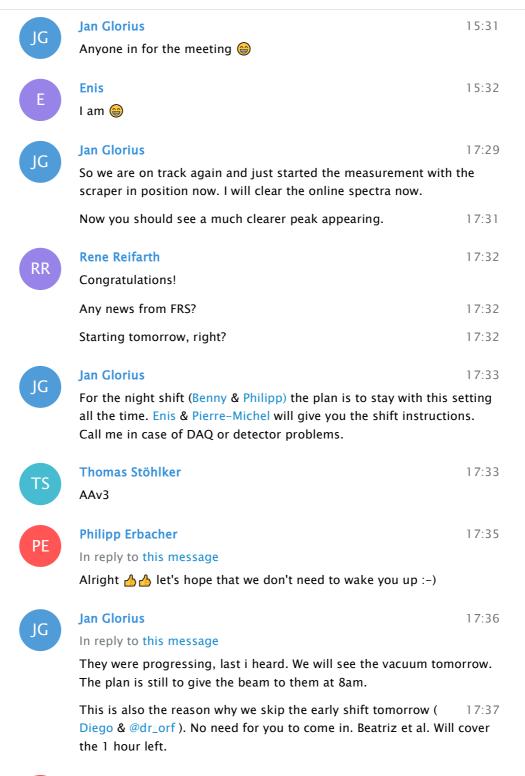
11:10

	can I drive it?	11:11
YL	Yuri Litvinov	11:12
	Sure	
JG	Jan Glorius	11:13
	It moves	
UP	Ulrich Popp	11:14
	No problem.	
	PropHelper - GE01DD1IG (eqmods.PPOS_07EqMod) + 2 X VetRec Moreen GE01001IG	11:14
	Best props Call props Lefault props A props Cinit Call props creates creations rendposs wendposs wendpost A props	
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	effective description of the second description of the second description of the second description de	
	gelp	
	Quit PropHelper - GE01DD11G (eqmods.PPO5_07EqMod) + _ C X	
	VrtAcc 2 L L L L L L L L L L L L L L L L L L	11:14
	Default props Read props Write props Call props clnit 1 rendposi () 1 wendposs 1 1 cresot 1 rendposs wendposs () 1 1 1 ractiv 1 rendposs () 1 wendposs () 1 1 1 1 rativ 1 rendposs () wendpose () 1 <t< th=""><th></th></t<>	
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	rpower rposabai() # stamp rprophanc rzpend strfime 01.3an,1970 rregdes rzpocnd() 00:00:00 + 0ms UTC rahutup rzpidata strfewent PZ rzatus rzpust() Vrr String representation of	
	Event = PE_CRAMEND (0) wattiv time c0.000100 date c1.1,1970> evtcode 0 evtcode evtcode	
	evt.πpbits <0000> ¥ppaa poa 0 ¥daea	
	pon 5978 <u>Refresh</u> <u>3.9</u> <u>2</u> K	
	id i	
	Jan Glorius	11:15
JG	It looks like a software/timing problem	11.15
	Yuri Litvinov	11:15
YL	Can we see that the event is not coming?	
	Ulrich Popp	11:15
UP	I only can say that the actuator works.	
	Yuri Litvinov	11:15
YL	Whom do you think we can call?	-

	Jan Glorius	11:17
JG	We also see and can change the position in device control. So the events just don't reach the final drive controller or this one is do accept them.	
VI	Yuri Litvinov	11:17
	Cabling? Do we have to select events somewhere locally?	
	Is there a module where the events shall be coming?	11:18
SL	Sergey Litvinov	11:18
SL	Events i saw yesterday in the snooptool	
	Event 162 and 163	11:18
	Detector position 1 and 2	11:19
	Yuri Litvinov	11:19
YL	In control system – yes, but do they reach the control unit?	
	Jan Glorius	11:20
JG	This also affects the "schnelle scraper" GE02DS3HG. So it seems	
	more general thing	
	Sergey Litvinov	11:20
SL	May be it is not enough time to drive detector in SC 9	
	Yuri Litvinov	11:20
YL	We drive them in 11	11.20
JG	Jan Glorius We are using 10 and 11 right now	11:20
	we are using to and it right now	
SL	Sergey Litvinov	11:21
	Should be enough time	
	Yuri Litvinov	11:21
T L	11 has repetitions	
	Can this be a reason? We can drive them in 4 to test	11:22
CL	Sergey Litvinov	11:23
SL	I know only that in the past, deactivate their event mode and se whole context helped	nding
	I explained to Jan yesterday looks now, it does not work	11:24
	Yuri Litvinov	11:24
YL	I sent context at least 3 times today	
CL	Sergey Litvinov	11:25
SL	What is the miximun outer position of Egelhof can one send via control	device

	l think	11:25
YL	Yuri Litvinov	11:25
	100 mm	
UP	Ulrich Popp	11:25
	positive, not negative	
	10000 means 100mm	11:25
JG	Jan Glorius	11:25
Ju	I moved it from 100mm to -50mm	
	-59mm is max	11:25
UP	Ulrich Popp	11:26
UP	-59mm ??	
	okay	11:26
CL	Sergey Litvinov	11:26
SL	May be in the paramodi somehow wrong dimensions, which how	ever i
	checked before and it was fine	
	Jan Glorius	11:26
JG	No, it can move beyond beam axis	
	Ulsteb Denn	11.20
UP	Ulrich Popp ah, right, yes, It can move about 150mm at all, a special configur	11:26
	but it is not so good for the bello	ation,
	Jan Glorius	11:27
JG	Jan Glorius We won't need this much movement	11:27
	We won't need this much movement	
JG UP	We won't need this much movement Ulrich Popp	11:27
	We won't need this much movement	
	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov	
UP	We won't need this much movement Ulrich Popp normally they only can move 125mm at all	11:27
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UP	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help	11:27
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper	11:27 11:27 11:29
UP	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((11:27 11:27 11:29 11:30
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one?	11:27 11:27 11:29 11:30 11:31
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one? Sergey Litvinov	11:27 11:27 11:29 11:30
UP YL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one? Sergey Litvinov Can Egelhof detector be always in?	11:27 11:27 11:29 11:30 11:31
UP YL SL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one? Sergey Litvinov Can Egelhof detector be always in? Jan Glorius	11:27 11:27 11:29 11:30 11:31
UP YL	We won't need this much movementUlrich Popp normally they only can move 125mm at allYuri Litvinov I tried other values, +50 mm, did not helpWe try another scraperDid not move((Ulrich Popp which one?Sergey Litvinov Can Egelhof detector be always in?Jan Glorius In reply to this message	11:27 11:27 11:29 11:30 11:31
UP YL SL	We won't need this much movement Ulrich Popp normally they only can move 125mm at all Yuri Litvinov I tried other values, +50 mm, did not help We try another scraper Did not move((Ulrich Popp which one? Sergey Litvinov Can Egelhof detector be always in? Jan Glorius	11:27 11:27 11:29 11:30 11:31

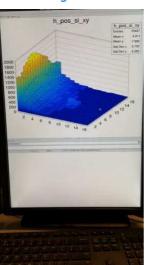
	GE02DS3HG also works.	
	~012500 (negative direction)	11:33
	Jan Glorius	11:33
JG	Did you just move it?	
	Ulrich Donn	11:33
UP	Ulrich Popp yes	11.55
	yes	
JG	Jan Glorius	11:33
	Ok	
	Ulrich Popp	11:33
UP	with prophelper	
JG	Jan Glorius To -100mm?	11:34
UP	Ulrich Popp	11:34
UP	now it is completely outside	
	I can move it to 100mm	11:34
		11.25
	Jan Glorius	11:35
JG	Jan Glorius Yes, we are trying to move by event now and where slightly conf	
JG		
	Yes, we are trying to move by event now and where slightly conf	
JG	Yes, we are trying to move by event now and where slightly conf by your movement	used
	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :)	used
	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius	used
UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :)	used
UP JC	Yes, we are trying to move by event now and where slightly confiby by your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100	11:35
UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again?	used
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp	11:35
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100	11:35 11:35 11:35 11:35
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100	Tused 11:35 11:35 11:35 11:36 11:36
UP JC	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100	11:35 11:35 11:35 11:35
UP JC UP	Yes, we are trying to move by event now and where slightly confi by your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius	Tused 11:35 11:35 11:35 11:36 11:36
UP JC	Yes, we are trying to move by event now and where slightly confi by your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out	Tused 11:35 11:35 11:35 11:36 11:36 11:36
UP JC UP	Yes, we are trying to move by event now and where slightly confi by your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius	Tused 11:35 11:35 11:35 11:36 11:36 11:36
UP JC UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius	Tused 11:35 11:35 11:35 11:36 11:36 11:36 11:36
UP JC UP	Yes, we are trying to move by event now and where slightly confi by your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius ✓ Yuri Litvinov Jan, we can continue	Fused 11:35 11:35 11:35 11:36 11:36 11:36 11:36 11:36 11:36 11:36
UP JC UP	Yes, we are trying to move by event now and where slightly confiby your movement Ulrich Popp ah okay so I better log out :) Jan Glorius Did you move again? It's back to -100 Ulrich Popp yes I moved it to .100 -100 but now I am logges out Jan Glorius ✓ Yuri Litvinov	Tused 11:35 11:35 11:35 11:36 11:36 11:36 11:36





Laszlo Varga

17:38



m (2) mice to see that this is meanwhile a well-established standard. Despite the fact that no one else can do it. m (3)

JG	Jan Glorius In reply to this message That's true, but it is really time to change the reaction now. 124Xe(p,g) is starting to make me feel bored a bit 😉	17:54
TS	Thomas Stöhlker	17:54
ID	Iris Dillmann blocking forward to see the pioneering "heaviest radioactive direct proton capture reaction" measured so far The previous "record" was 39K measured by DRAGON 1. Thanassis was a con- author, right?	bus
ТР	Thanassis Psaltis	19:19
	Nope, that experiment was the year before I started grad schoo	ol 😭
YL	Yuri Litvinov Do you have a picture with "scraper". There should be quite sor counts by now?	20:13 me
	Jan, did you set the second scraper?	20:13
JG	Jan Glorius No, i think we would need the comparison between one and tw scraper measurements to draw a conclusion. But the time is to get this until tomorrow 8.	
YL	Yuri Litvinov In reply to this message Indeed, Rene, last time we were excited to see it, and now it is special"	20:16 "nothing
	In reply to <mark>this message</mark> You are Right! Let see, may be we can do this with Te.	20:17
LV	Laszlo Varga	20:19

Last ~2.5h combined

8

20:20

20:20

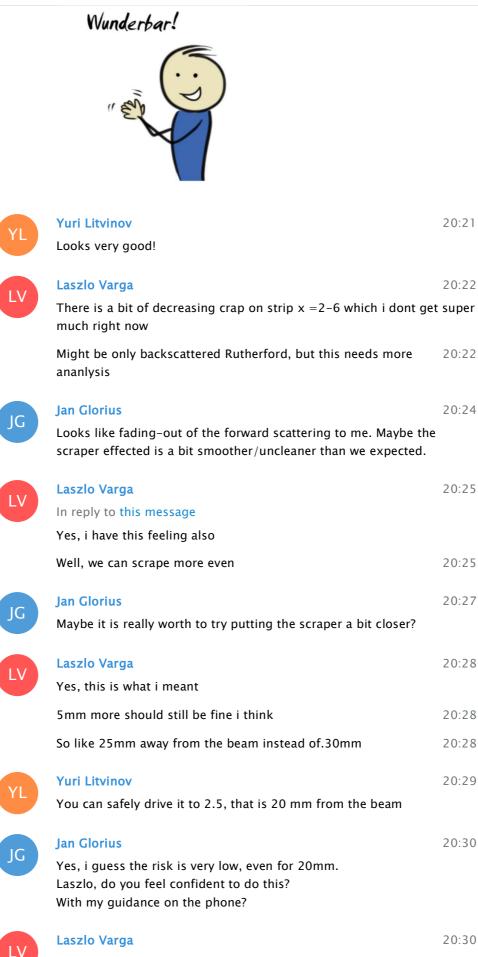


Jan Glorius

You can directly compare the cross sections of (p,g) and (p,n) here. Wow

A 2

10 12 14 16

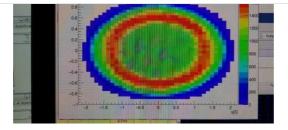


Laszlo Varga20:30I am in the office right now20:31But give me like a 10min and i am ready20:31

	Enis	20:32
E	We just stopped a run. Shall we wait until you adjusted the scrap shall we start a new one?	ers? Or
VI	Yuri Litvinov	20:32
	Pierre-Michel is there	
JG	Jan Glorius	20:32
	Ah, yes	
	Can someone pic up the phone at the ESR panels in 2 minutes?	20:33
РН	Pierre-Michel Hillebrand	20:34
	yes	
JG	Jan Glorius	20:50
	Scraper is set to 20mm distance 👍 Online server spectra are cleared	
	Laszlo Varga	21:09
LV	I just quickly checked my simulations and the pg at the scraper p	
	should reach around from 1 cm to -1 cm . So we are safe in this re	gard
UP	Ulrich Popp	21:38
U	What happend with the gastarget? It actually has ~4*E14 Particles	s/cm² ?
TS	Thomas Stöhlker	21:38
	???	
UP	Ulrich Popp	21:39
	the whole day. Was it planned? ;)	
JG	Jan Glorius	21:39
	We did nothing	
UP	Ulrich Popp	21:39
	ОК	
	aah! haha my fault	21:40
TS	Thomas Stöhlker	21:40
	was it really 4*E14?	
UP	Ulrich Popp	21:40
	wrong gas was switched. All correct, 1*E14.	
LV	Laszlo Varga	21:41
	We didnt see change in the online monitor	
	Remained 1e14	21:41

TS	Thomas Stöhlker	21:42
	ahhh 😉	
UP	Ulrich Popp	21:42
	yes. 1*E14. All correct.	
тс	Thomas Stöhlker	21:46
	this is really remarkable. Such high density and such a stable ope Really great!	ration.
	Laszlo Varga	21:57
LV	In reply to this message	
	A quick question to the pn. Since it is visible in our spectrum alres should not we aim for the measurement of it as well at 7MeV? For maybe we should move the detector like 2 strips (0.6cm) away fro beam to completely catch all pn events	r.this
	Jan Glorius	21:58
JG	What does the simulation say, how big is the cone theoretically?	21.90
	Laszlo Varga	21:59
	This i have to simulate right now. About 7mev pn i didnt dream b	efore
	But judging from the histogram i would say two.more strips	22:00
	To be safe	22:00
	Jan Glorius	22:03
JU	Well, i guess, you can move it if really want. However, one cannot the shape visible at this statistics	trust
	Personally, i think we can extract the (p,n) cross section in the cu position.	rrent
	Laszlo Varga	22:08
LV	So	
	I quickly made a simulation. It says that 1 more strip movement would be maybe enough to.cover completely	22:10
	But now we are much sensitive range with the simulation also. Just above the pn threshold	22:10
	So the uncertainty is hard to tell	22:11
	Even with the current position we should be pretty much good	22:11
	Jan Glorius	22:13
JG	Yes, and we can simply add all runs with this Detector position for analysis. Even when the scraper was moved.	or
	Laszlo Varga	22:13
LV	Hmm	
	I just checked the pn at the scraping position and it is exctly 2cm	22:14

away from the axis



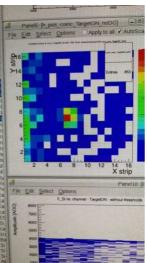
For.the g.s.	22:16
Jan Glorius	22:17
Mh, shall we go to 25mm scraper position? Now or never.	

22:18



JG

Laszlo Varga



	The background now of course improved for the pg, it seems	22:18
	I would move to 25mm with the scraper	22:19
JG	Jan Glorius Then do it. Pierre-Michel should know what to do.	22:20
LV	Laszlo Varga Yes	22:20
JG	Jan Glorius It should be 7.5 in absolute position then, right?	22:24
LV	Laszlo Varga Yes	22:25
	We just did	22:26
	And started a new run	22:26
	Cleared the online si.map	22:26
JG	Jan Glorius	22:26

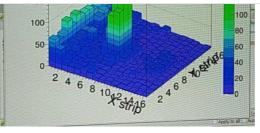
RR

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Rene Reifarth 23:18 You think, the small area to the right of (p,g) is (p,n)? The area is so constrained because we are close to threshold, hence almost no recoil?

LV	In reply to this message	23.20
	Yes, it should be the pn since the center of the pg and the pn distributions were typically 2cm away from each other	
	Which is the case seemingly for what we see	23:20
RR	Rene Reifarth	23:21
LV	Laszlo Varga Regarding the size of the pn as you said, we are closer to.treshold hence smaller cone	23:21 d
	23 May 2021	
В	Beatriz We have given the beam to the FRS.	08:09
JG	Jan Glorius A nothing to report from the night?	08:09
PE	Philipp Erbacher Some of the magnets shut off during the shift change at about 23 Worked again after a reset :-) the rest of the night was rather uneventful	08:11 3:00.
MS	Michele Sguazzin	08:11
JG	Jan Glorius	08:12
В	Beatriz Our 1h shift went very smoothly!	08:12
RR	Rene Reifarth In reply to this message (p,g) is crystal clear. Not sure, if we can trust the (p,n) yet. Very n	09:09 ice!
TS	Thomas Stöhlker wow, looks really very nice!	09:10
MS	Michele Sguazzin	09:44

220 7



To better see the (p,n)

В	Beatriz	09:51
Ь	The Ge are being filled automatically now. Should we write or loo something? I think we should write the weight right?	k at
TS	Thomas Stöhlker	09:52
	usually one should stop the acq since filling may produce a lot of	noice
В	Beatriz Yes we stopped the DAQ at 8:00 already.	09:53
JG	Jan Glorius I did filling remotely 1 hour ago. Don't worry, all is done	09:53
TS	Thomas Stöhlker	09:54
В	Beatriz Ok!	09:54
RC	Ruijiu Chen I am on duty today. I am sorry i will be 20 min late.	14:58
LV	Laszlo Varga Arent your shift cancelled?	14:59
RC	Ruijiu Chen I don't know. I did not receive any emails about this.	15:00
JG	Jan Glorius I am sorry, i didn't communicate today.	15:13
	All shifts until Monday night are cancelled for now.	15:13
	Sorry again, Ruijiu & Alex.	15:14
E	Enis In reply to this message Sorry just to be clear, the shifts continue from Monday 23:00 onv	15:16 vards?
JG	Jan Glorius Yes, exactly. Sorry for being not clear.	15:21

Sergey Litvinov

JG	Jan Glorius	15:23
	I also won't be able to join the meeting today. Maybe someone correport on FRS status?	ould
CI	Sergey Litvinov	15:23
SL	Can one send the link for the meeting?	
	Jan Glorius	15:25
JG	In reply to this message	
	This one	
DC	Ruijiu Chen	15:28
RC	there is no beam and nobody in HKR. what is wrong with experim	nent?
CS	Cobus Swartz	15:33
CS	In reply to this message	
	We're having the zoom meeting now.	
DC	Ruijiu Chen	15:33
RC	Alex and i got it. No problem. we are going to leave. Do we have meeting today? If there is a meetin, could you please send me the	- link?
	neeting today: If there is a meetin, could you please send me the	2 IIIIK:
CC	Cobus Swartz	15:34
CS	In reply to this message	
	The link is in Jan's last message.	
DC	Ruijiu Chen	15:35
RC	Sticker	
DC	Ruijiu Chen	16:00
RC	This is the status of N2 cooling sysyem. One of the detectot is go minimum.	ing to
		16:00

should we fill the Ge detector or target?

max: 0kg min: -3k

0deg (black, 12h filling 35deg (red)

15deg (gree 24h filling

Thomas Stöhlker

	Jan Glorius	16:06
JG	No need to fill! I did this morning, Laszlo will do this evening	
	The weight is not very well calibrated0.8kg is full for the 90 degree detector	16:07
ТС	Thomas Stöhlker	16:07
	but the contols should work	
RC	Ruijiu Chen	16:08
	what about the LN for target?	
JG	Jan Glorius	16:09
JU	Don't worry, we have things under control. Target was filled late yesterday, Laszlo will fill it later.	
	Helmut Weick	16:10
HW	Hi Yuri, Are you on Zoom of E127?	
VI	Yuri Litvinov	16:11
	Was a few min ago	
	I'll be at GSI in 15 min	16:11
	Ruijiu Chen	16:14
RC	ok. We got it. We are going to leave HKR. Thanks.	
	Jan Glorius	16:15
JG	👍 thanks Ruijiu	
	Ruijiu Chen	16:23
RC	You are welcome.	
JG	Jan Glorius	16:57
	In reply to this message	
	Just to clarify, we cancel the shifts because the FRS is being tune us. This was the original plan and is actually a good sign.	d for
YI	Yuri Litvinov	16:59
	Yeap, but I would like to ask the morning and afternoon shifts of tomorrow to be ready to come in case we are faster tonight. We will cancel/confirm in the night	
	The beam at the FRS is well advanced	16:59
	Surely, to get it to the ESR will take some time	17:00
IG	Jan Glorius	18:32
	I have to apologize, there was a misunderstanding between Yuri	and
	me. For now we cancel the shifts until tomorrow 7:00am.	
	The shifts tomorrow morning and afterwards might be needed in optimistic forecast.	an

ΥL

@Jan, could you please check whether 120I is a serious contaminant for us.

	Yuri Litvinov	04:44
	We have 118Te at 7AMeV!	
	There will be the morning shift!	04:44
	Sergey Litvinov	04:45
	Jan should come immediately 🙂	
۲L	Yuri Litvinov	04:46
	About 2e5 particles per shot stored.	
	Yuri Litvinov	05:12
	The beam at DSSSD is at -25 mm (absolute). This is very much in The question is whether we shall remove the bump and move it mm as before?	
	We leave now! What is left is to decide on bumps, set up the target overlap, and run	05:21
	In case there are complications with setting the bumps, please call me	05:22
	Jan Glorius	05:26
G	How do I set the bumps, which devices to use?	
	Yuri Litvinov	05:29
L	When can you come?	05.25
	I can wait still a bit	05:29
	Jan Glorius	05:29
G	In reply to this message	
	Which charge state? 52+?	
	Yuri Litvinov	05:30
5	52+	
	Please forget this - we have a clean beam	05:30
	HF picks up very selectively only our line	05:30
	May be, we shall make a short TCAP run to have an overall pictu	re 05:31
	RuiJiu and Ragandeep, could you record a few cycles. This will make many nice figures	05:32
	Jan Glorius	05:32
G	Okay, i am at GSI in about 35 minutes.	
	Yuri Litvinov	05:33
L	Excellent!	00.00

Ragandeep

.... . + 110T 27 D

E127: Proton capture on 118Te		
RC	Ruijiu Chen sorry. I just see the message.	07:51
RR	Rene Reifarth In reply to this message	08:13
	Congrats!! This is the first true FAIR (Phase-0) experiment in our campaign. Dreaming of it since 2007 😊	(p,g)
DD	Rene Reifarth	08:50
RR	If I'm not mistaken, we should see around 0.2 cts / s for a cross s of 10 mb. ~5000 cts /shift @ 10 mb	section
	100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 60 100 70	08:55
	Here is what we saw with Xe back in '16:	
JG	Jan Glorius	09:18
	Now, we are sharing beam with HTD. This seems to have some influence, beam is barely visible on the schottky at 7mev and the stacking steps are also not very clear to see on the Trafo anymore	e.
	We still struggle to make a target overlap	09:18
JG	Jan Glorius	11:18
	We are in production with 118Te now. However the conditions are perfectly optimized. Target overlapp is there, since we see xray p emerging. but the rate per second is negligible and we cannot op the overlapp.	eaks
	The parallel beam to HTD costs us at least half of the intensity But this was expected i guess.	11:19
RR	Rene Reifarth "parasitic" mode nomen est omen.	11:21
		11:21
	Jan Glorius	11:22
JG	I have hope that tomorrow we will get another optimizing look by ESR guys and for stoc. Cooling. Then let's see 🖔	/ our
	Ulrich Popp	11:23
UP	Is it too difficult to adjust the beamline in the target section?	

	Ruijiu Chen	11:24
RC	Maybe the emittance of secondary beam is much larger than the	
	primary beam.	

Jan Glorius

	This is similar to last year	
	,	
UP	Ulrich Popp	11:32
	ah okay	
	Yuri Litvinov	11:39
YL	Jan, how much do we get per spill?	
PH	Pierre-Michel Hillebrand	11:39
	would it help to change the time bining of your rate histograms?	
	Yuri Litvinov	11:39
YL	You can do e.g. 20 stacks	
	We are not parasitic, and shall talk to Daniel if the conditions are	11.40
	impossible.	11.40
JG	Jan Glorius	11:40
	In reply to this message	
	We start at 8e5 and have 1.1e6 after 5 stacks.	
	Laszlo Varga	11:42
LV	In reply to this message	
	If we can trust in lassie. We are at the sensitivity limit	
	Yuri Litvinov	11:42
YL	This would mean 6e4 per stack, which is a factor >3 as without th	
	HTD	
JG	Jan Glorius	11:43
	In reply to this message	I
	Yes, but we always have 2 HTD spills in-between our injections ar have to wait a bit. This makes stacking a bit less efficient.	ia
YL	Yuri Litvinov	11:45
	When did they start? Before I left, we had reasonable conditions, r	ignt?
	Jan Glorius	11:45
JG	They started at 8 am or so.	
	The difference is obvious, they switched off Shortly and the good condition was back	11:46
	In reply to this message	11:46
	Daniel said he would be available for the noon meeting today.	
	Yuri Litvinov	11:47
YL	Ok	11.77
	In reply to this message	11:47
	Green	

11:48

Grrrh

RIGHT. INCOM IS THE PALASILE HULLING/ KINING THE HOST (US)

TS	Thomas Stöhlker Is there a noon meeting today?	12:01
JG	Jan Glorius In reply to this message A non-official one I think. But yes	12:03
YL	Yuri Litvinov I sent an email to Daniel and Christian let see what can be done	12:09 e.
	Last year, CBM was running parallel to 205Tl experiment and we had to switch them off during accumulation phase. This was fine afterwards we measured for several hours, but now((((
YL	Yuri Litvinov One full day today and another one on Saturday or so	12:29
	CBM has presently 8 seconds extraction time. If they increase to 10 seconds, do you think our request gets in?	12:32
JG	Jan Glorius In reply to this message I do not understand this issue too well i have to say We need to	12:34
	compare their extraction time to our time between the injections?	
YL	Yuri Litvinov CBM will change now to 10 seconds. Please have a look whether t still get 2 spills in between our stacks.	12:34 hey
JG	Jan Glorius Will do	12:35
	With 20 stacks we reached 1.65e6	12:35
YL	Yuri Litvinov So 6e5 in 15 stacks, not much (I compare to the number you w above)	12:37 rote
TS	Thomas Stöhlker Puhhh, sounds like CRYRING	12:39
JG	Jan Clorius	13:24

	in the middle they switched off	
DD	Rene Reifarth	13:46
RR	That is a very clear plot. Thanks Jan.	
	Jan Glorius	13:48
JG	Props go to Mario, i just made the foto. 🎯	
	Rene Reifarth	13:48
RR	Dream team. 🎯 👍	
ТС	Thomas Stöhlker	13:57
TS	Looks really great	
VI	Yuri Litvinov	14:06
YL	Jan, you should first decide on the position of dass	
	Dsssd	14:06
	Without bump, the overall storage was better, with the bump we were entering into a resonance	14:07
	The bump was very close to 1:1, that is 1 mm bump corresponding to 1 mm beam shift	14:08
	Jan Glorius	14:09
JG	Okay, we will try reducing the bump from -20mm to -10mm and	see
	Jan Glorius	14:53
JG	@HoSnoopy we have a new status of the trap in ESR	
	Warning: Potential Security Risk Ahead - Mozilla Firefox (on atpnuc002) Lential Security × + + + + Kühlfallenstatus am 24.05.2021 um 14:51: Unbekannter Status 0	14:53
	Shall we go in and check?	14:53
UP	Ulrich Popp "Kühlfallenstatus am 24.05.2021 um 17:43: Alles ok, Pumpe ist in Standby"	17:45 m
	l just came home :)	17:46
	Pierre-Michel Hillebrand	17:46
PH	Should we do something ??	
	Friedrich S. Laton and L. G. R. Phys. 26 (13) 280 (1971); 1004073613; 10175 (2) 11500 (2011); 2011 (2) 1171	17:46

urity Risk Ahead - Mozilla r
 Warning: Protential Security Rock Ahead
 Modified Firefax (on at proceed)

 ing: Potential Security ×
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 0 & https://ulpc24.gsi.de/ga/get/data/
 ··· ♡ ★

 IN
 0 & d*
 Kühlfallenstatus am 24.05.2021 um 17:41: Unbekannter Status 6

UP	Ulrich Popp maybe it is empty, but not yet critical? ;-]	17:46
РН	Pierre-Michel Hillebrand Better now!	17:47
	Warning: Botential Security Hisk Absail - Medilla Findex (en algner/602) Arning: Potential Security X + + + + - C C C C Image: Solution of the status and 24.05.2021 um 17/46: Allos ok, Pumpe ist im Standby	17:47
UP	Ulrich Popp The problem is that norhof never gave us an "API" for its pump, s had to look by try and error	17:47 o we
	tomorrow I have to refill it	17:47
	maybe somebody earlier	17:48
РН	Pierre-Michel Hillebrand how do we know?	17:48
UP	Ulrich Popp if it is peeping inside you have to refill it ;)	17:48
	normally it should be monitored	17:49
JG	Jan Glorius this is the big dewar which fills a smaller one for the trap, right?	18:43
	We have a similar dewar outside ESR, which is full and could be quickly exchanged.	18:44
PH	Pierre-Michel Hillebrand I hear a peep every 30 s from outside ESR, is it that?	18:50
JG	Jan Glorius Yes, that's it	18:51
	I guess we need to exchange it.	18:51
LV	Laszlo Varga Should i go as well , Pierre-Michael?	18:52
JG	Jan Glorius It's not complicated. 1. Have ESR opened in TSG, with the big gate	18:55

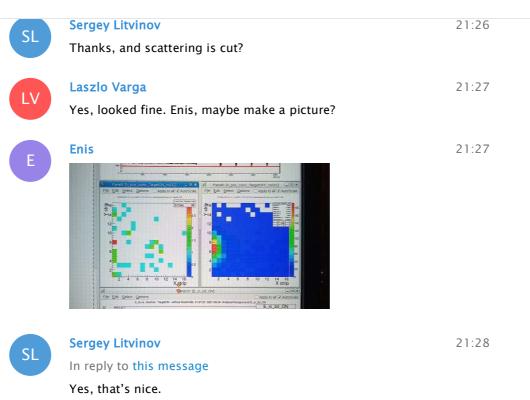
2. Take the big dewar outside the lab to inside.(The one with the

	needed) 5. Slowly lower the pump into the new dewar and seal it.	
	@ulli: any reset needed?	
YL	Yuri Litvinov	18:55
	Please talk to the operators on how it is the best to do TSG	
	We need Strahlenschutz Rufbereitschaft	18:56
JG	Jan Glorius	18:56
	Mh, yes	
	Ulrich Popp	19:03
UP	maybe switch off and on (green button)	
	Jan Glorius	19:13
JG	Is this going to be okay, are you guys handling this? In case of Problems i can come in, But only around/after 21:00	
	Ulrich Popp	21:05
UP	"Kühlfallenstatus am 24.05.2021 um 20:49: Pumpe pumpt gerad	e"
	"Kühlfallenstatus am 24.05.2021 um 21:04: Alles ok, Pumpe ist im Standby"	21:06
	Sounds good :)	21:06
	Laszlo Varga	21:06
LV	20:21 Alles ok, pumpe ist im Standby	
	Density is again e14	21:06
	In reply to this message	21:07
	Sorrry i meant 21:06	
UP	Ulrich Popp	21:08
U	The hydrogen goes all the time through the nozzle, there is alway jet, but it is interrupted by a small sheet of metal	ys a
	Jan Glorius	21:09
JG	In reply to this message	
	Nice job Pierre-Michel & Laszlo 🝐 Thank you very much and sorry for the dewar confusion, my fault	: <u>@</u>
CI	Sergey Litvinov	21:24
SL	What about data? Do you see pgamma?	
	Laszlo Varga	21:24
LV	In reply to this message	
	I remember like 7counts	

21:25

Enis

Already enough for a phd



25 May 2021



Laszlo Varga

Laszlo Varga

I just quickly analysed what is the optimal setting regarding the number of stacking (and measurement time). To do so i looked at the number of counts in the KREC peak measured with the 90deg HPGe. I couldnt exclude all effects, but it seems that the 10 and 20 stacking with 11sec targetON phase are rpughly the same. However, the 30stacks + 3x5.5sec targetON phase is convincingly better, roughly like 1.5times more counts than in the previous two.cases. not sure though is this the effect of somehing else.

In conclusion, i would.keep measuring with the current settings, 00:41 so 30stack, 3x5.5sec targetON

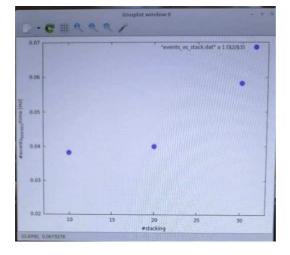


Rene Reifarth00:42Thanks for the swift analysis!

Ho many counts did you see? 00:43

00:43





00:40

RR	ah, here it comes. 😊 thanks.	
LV	Laszlo Varga Y-axis KREC counts at 90deg /measurement time	00:44
	Roughly	00:44
	I didnt look precisely when was beam and when not	00:44
CS	Cobus Swartz Okay. I guess then we'll stick to the same settings.	00:47
LV	Laszlo Varga Yes, please continue like this	00:47
	At least i dont see reason to change anything else	00:48
RR	Rene Reifarth Yes. 😊	00:48
CS	Cobus Swartz Noted. We now see 11 counts in the p,gamma region.	00:52
LV	Laszlo Varga 👍 keep collecting 🙂	00:53
	Can u make a picture?	00:53
MS	Michele Sguazzin	00:54
LV	Laszlo Varga In reply to this message Ah, the histos were cleaned for the 30stack settings, right.	00:55
	?	00:55
CS	Cobus Swartz I believe so. We weren't here at the time though.	00:55
LV	Laszlo Varga Anyhow, we have the data 🙂	00:56
E	Enis In reply to this message Yes they were	00:56

CS	Cobus Swartz I agree. We'll post another picture in the morning.	00:57
LV	Laszlo Varga	00:57
RR	Rene Reifarth only, if you see (p,g) !!! 😂	00:58
CS	<figure></figure>	06:44
D	Diego Hi all. I just arrived at GSI for the shift, but I probably got lost. W the right building? First at time at GSI	06:58 hich is
OF	Oliver Forstner Where are you now?	07:07
MS	Michele Sguazzin Hi Diego, if you need we can meet at the welcome office	07:08
D	Diego At the registration	07:08
	Yes please 🤤	07:09
	Thank you!	07:09
OF	Oliver Forstner In reply to this message Hi Diego, Did you manage or still lost?	07:18
RR	Rene Reifarth In reply to this message Amazing – it is so clean, one can basically count by hand. ~25 ct hours duty-cycle strikes back	08:24 s / 6
	Yuri Litvinov	13:17

Do we need to bring anything into the ESR? It can be open for 1 hour.

Robert Grisenti joined group by link from Group

RG	Robert Grisenti Some more patience still optimizing	18:15
RG	Robert Grisenti All quadrupols have failed right now! The on-call service has to come	18:43 18:45
RR	Rene Reifarth	18:48
SS	Shahab Sanjari can take up to 30 min	18:48
	Юрий A. says, not up to, but at least Robert is wondering	18:49 18:51
SL	Sergey Litvinov who is in hkr now?	18:53
SS	<mark>Shahab Sanjari</mark> mr bombastik	18:53
SL	Sergey Litvinov what kind of error&	18:54
	?	18:54
SS	Shahab Sanjari The electrical current which is needed to supply the magnets is	18:54 cut
SL	Sergey Litvinov thanks	18:59
SS	Shahab Sanjari	19:33

We discovered,.... Frankfurt!

SS

του πανε το πηριονε γουτ μποτοςπομ σκιπς 👼, βατ πιαεεά

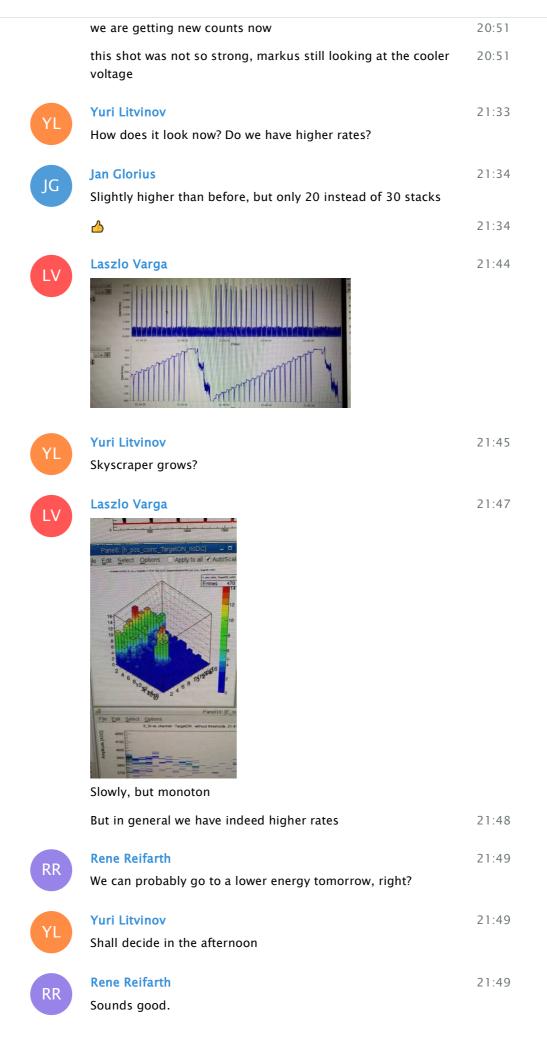
Shahab Sanjari	19:37
sometimes you gotta be quick with results	
the magnet guy just arrived.	19:42
he is taking a look at ESR magnets	19:42
	19:44



TS	Thomas Stöhlker I like this image of Frankfurt 🌝 . Looks great \delta	19:46
RG	Robert Grisenti Quadrupoles are on again 😀	20:28
LV	Laszlo Varga Please dont start to.measure yet, xrays are getting filled with LN2 Needs 3mins roughly	20:29
RG	Robert Grisenti OK	20:30
	Let me know when you are ready	20:30
	They have to optimize anyway	20:31
LV	Laszlo Varga Xrays are filled, if possible, start the measurement. Sorry for.the I come.to.HKR	20:42 pause.
SS	<mark>Shahab Sanjari</mark> markus still working	20:43
	markus is finished	20:44
	we would now start the LMD file	20:44
LV	Laszlo Varga Ok	20:44
	Shahab Sanjari	20:45

after that I do lifetime measurements

SS

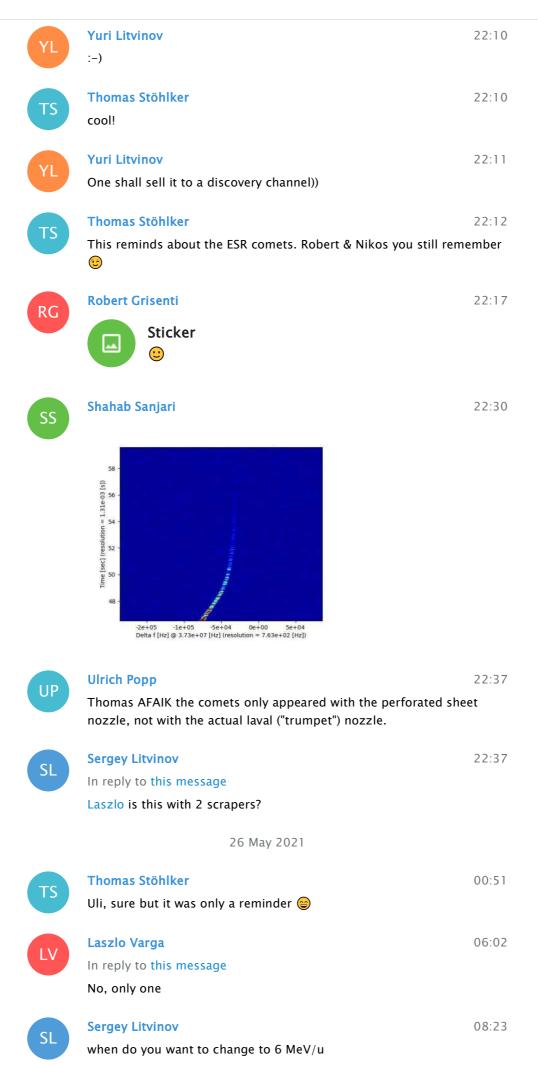


Yuri Litvinov

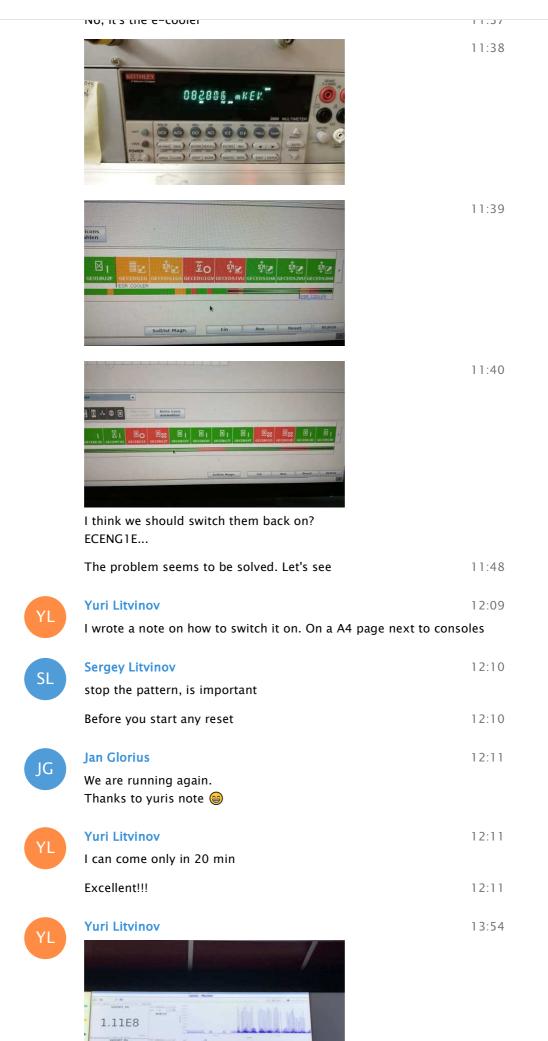
JG	Jan Glorius	21:50
RR	Rene Reifarth	21:50
YL	Yuri Litvinov Having several stacks improves the stability of the SIS intensity very stable at 3e9. Talked to operators, there is not much they ca to improve further	
RR	Rene Reifarth It's amazing. How long did it take to get the plot above?	21:55
JG	Jan Glorius I think about 20 hours, maybe less.	21:57
LV	Laszlo Varga We have now scrapers everywhere. Rutherford scraper and skysc left	21:58 raper
YL	Yuri Litvinov Today we lost nearly the entire day due to a planned 30 min intervention to SIS	22:02
TS	Thomas Stöhlker	22:03
SS	Shahab Sanjari I will stop gas target for the next 2 cycles for lifetime measureme	22:03 ents
	each cycle is about 6 minutes	22:03
	elog is update	22:04
JG	Jan Glorius Very good. Thanks	22:06
YL	Yuri Litvinov Please record also a few 410 MHz, full cycle, beautiful pictures be you can post the one you made a photo of))	22:09 May
SS	Shahab Sanjari	22:10





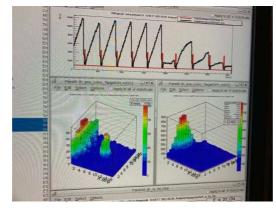


	Status: 1 h break, source filament needs to be changed.	08:32
JG	Jan Glorius @HoSnoopy do you take care of the target filling tasks until Frida	09:17 y?
UP	Ulrich Popp ah not today!	09:45
	tomorrow and friday	09:45
LV	Laszlo Varga Ok	09:45
UP	Ulrich Popp My daughter is ill and Ihave to take care of her	09:46
JG	Jan Glorius No problem, take care of your family!	09:48
UP	Ulrich Popp Target is running very good and the actuators afaik also (;).	09:50
	maybe I have to change the hydrogen bottle on friday. That maybe means less density for about 10minutes. But maybe it is e inside. This I'll see tomorrow.	09:51 nough
RR	Rene Reifarth As if you were here and taking care. 👌	09:55
JG		10:15
	250 - 300 counts	10:16
SL	Sergey Litvinov When do we go to 6 MeV	10:16
МА	Marialuisa Aliotta In reply to this message this is fantastic! congrats!	11:22
JG	Jan Glorius We have a problem with the ESR cycle. There is a huge loss after	11:35



0.00E0

The parallel operation with cave-C is not optimal... we adjusted 13:55 the timing, but the intensity is now much lower than before...



13:56

14:31

20:33



LV

JG

SL

JG

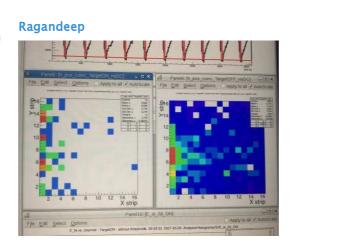
YL

JG

Thanassis Psaltis

Hallo! Could someone come pick me up from the front office? Laszlo Varga 18:33 We started to.measure at 6Mev Lets collect some statistics to see if our settings are fine 18:33 **Jan Glorius** 18:34 ⊿ 19:08 **Sergey Litvinov** cooler is down Ragandeep 19:26 Data taking started again! **Jan Glorius** 20:31 Filling is ongoing Yuri Litvinov 20:32 Do we have a spectrum already? **Jan Glorius** 20:33 Probably a bit early...





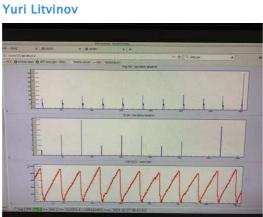
YL	Hmmm	
	Let us wait at least it looks plausible that the setting is reasonable	20:35
JG	Jan Glorius Filling is done. Please restart the data taking.	20:41
R	Ragandeep Ok	20:42
	Laszlo Varga	22:47
	Compared provide provide targets of a factor of the factor	
	4-4.5h data, still hard to see anything. but our intensities are verat esr	ry low
		22:47

In reply to this message Hard to say even	22:48
Yuri Litvinov Let us run over night and see in the morning.	22:50
Rene Reifarth	22:50

27 May 2021



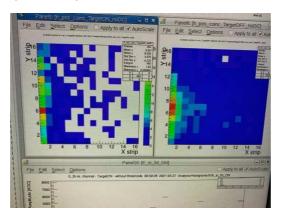
Concent + Concent + Concent + [8] X+→1



06:43

	I will move the target bump a bit	06:45
JG	Jan Glorius Yes, it's worth a try. But I thought You did yesterday	06:46
YL	<mark>Yuri Litvinov</mark> Yes, we did	06:46
	Our diagnostics was the x-ray rate	06:47
	Overall it is not yet consistent cause We have counts in the first dsssd strip	06:48

What should that then be? Backwards scattering? From what? It is 06:50 tough to say whether out "target on" and "target off" pictures are qualitatively different



06:50

Jan Glorius	06:56
Yes, this is hard now. But I guess we can only try to confirm settin and wait.	ıgs
I think we have target overlap but cross section and luminosity don't allow 10h success	06:58
Rene Reifarth	07:01
Do we see Te-x-rays during target-on?	
Yuri Litvinov	07:01
This Jan can check	
I do re-check the overlap and let it run further	07:02
Jan Glorius	07:04
In reply to this message	
We get a spectrum with the expected lines, yes.	
Rene Reifarth	07:05
Well Then there must be overlap, right?	
Do we know the position on the beam at the DSSD? Could that be different?	07:06
Yuri Litvinov	07:07

Yuri Litvinov

JG

RR

JG

RR

YL

07:07

Yes, it may well be. We thought to fine tune according to the p,g peak on the dssd))

JG	I don't believe that the position has changed much. The Si map spectrum shows	
	That Rutherford backscatter is on a comparable level than pg	07:08
VI	Yuri Litvinov	07:09
	There is always Merfi around, and it might well be that we just ne higher statistics	eed
	I will do two more steps and if no visible improvements, will let in run with set parameters	t 07:10
DD	Rene Reifarth	07:11
RR	Mmh. Can we compare the Te x-ray rate (cts per hour or so) with situation at 7 AMeV?	the
	Yuri Litvinov	07:12
YL	We have a much lower intensity at 6 AMeV, we lose too much at a second ramp	the
	Rene Reifarth	07:13
RR	Ah. I see.	
JG	Jan Glorius	07:13
50	In reply to this message	
	We shall do a direct comparison I will report as soon as I have	values
RR	Rene Reifarth	07:13
	Then this is the main problem?!	
	Very good. Thanks Jan! This seems to be the only way to draw solid conclusions.	07:14
	Yuri Litvinov	08:23
YL	We restarted the data taking	
	The overlap with the target was indeed not optimal	08:23
	By shifting the beam from -11.5 to -12.8 mm, we gained a facto of three rate on the DSSSD	r 08:24
	May be 2.5 not 3	08:24
	We adjusted the scraper	08:24
	Looking at x-ray rate (quite tough to judge) and put it from $+1$ t $+2$	o 08:25
	For setting the detector position we have no good diagnostics	08:26
DD	Rene Reifarth	08:27
RR	1 mm change in beam position should not clear the (p,g) entirely maybe it was indeed mostly the (missing) statistics	v. So

	relaxed somewhat is the edge of the Rutherford	
	Next goal is to run and see in a few hours	08:30
RR	Rene Reifarth back to "staring at the screen" again :D	08:30
YL	Yuri Litvinov We clear the plot in the online "starring screen" and restart to star	08:31 ring
RR	Rene Reifarth	08:33
YL	Yuri Litvinov We lose the beam after about 4 seconds at 6 AMeV. Probably also kind of resonance that we fought at 7.	08:52 a
JG	Jan Glorius Mh	08:52
YL	Yuri Litvinov Also, the x-ray rate is nearly independent from the number of sta	08:52 .cks
RR	Rene Reifarth In reply to this message Even without H2-target on?	08:53
YL	Yuri Litvinov We used 7 during optimization and 20 did not increase the intens	08:53 ity
	In reply to this message Yes	08:53
	With the "resonance" at 6 AMeV I cannot do much. May be Sergey can help to modify tunes a little.	08:55
	I suggest to go faster cycles for the time being until the slowing down is improved (if possible Surrey)	08:56
RR	Rene Reifarth would 5.5 AMeV be better then? (sorry for the stupid question, do understand this amazing machine all too well)	08:56 on't
YL	Yuri Litvinov Could well be, but could also be worse	08:56
RR	Rene Reifarth just thought since we were running 124Xe at 5.5 AMeV	08:57
YL	Yuri Litvinov	08:57

New control system – new reality

SL	Sergey Litvinov In reply to this message	08:58
	I cannot come today, i go to the hospital	
YL	<mark>Yuri Litvinov</mark> Oki doki	08:58
SL	Sergey Litvinov It is hard to do something with a fragment beam, unfortunately	08:58
RR	Rene Reifarth Take care Sergey There's life beyond physics.	08:59
SL	Sergey Litvinov We already discussed it with Markus, that we did not optimise the deceleration to 6 MeV but only at 7	08:59
YL	Yuri Litvinov Alvarez is down((grrrh	08:59
SL	Sergey Litvinov With fragment beam, one can see only on the Schottky line wheth more intense or not	09:00 er it is
YL	<mark>Yuri Litvinov</mark> It is understandable, Серёжа	09:00
SL	Sergey Litvinov Just for you information))	09:01
YL	Yuri Litvinov We can switch to primary beam	09:02
RR	Rene Reifarth that might be a good idea124Xe @ 6 MeV, optimize and than g back to 118Te is it feasible in terms of human-power?	09:07 0
YL	Yuri Litvinov I do not know	09:08
	FRS is rather simple, but ESR is difficult	09:09
RR	Rene Reifarth yeah - that was my main concern	09:09
	well then maybe: faster cycles now and we discuss with Sergey & Markus as soon as they have time for a meeting?	09:12
HW	Helmut Weick do you need help for FRS?	09:29

Yuri Litvinov

	Helmut Weick	09:37
HW	tell me when you want changes on FRS, good excuse to skip anot meeting.	her
RR	Rene Reifarth	09:41
	Ulrich Popp	09:45
UP	Just refilled LN2 on the ESR-roof, tomorrow a bottle change für H necessary	12 is
	Helmut Weick	12:59
HW	Error at FRS!!! Somebody removed the degrader 30min ago. I will it back in.	move
	Jan Glorius	13:06
JG	Oh Can we get a more precise time for this removal?	
YI	Yuri Litvinov	13:07
	Helmut, please add a note into logbook	
	Elog	13:07
HW	Helmut Weick	13:08
	It was already removed yesterday says the log file, whole night w other beam.	ith
	Can somebody check the Schottky and ESR cycle please, FRS was corrected 5 min ago, Now it should deliver 118Te again, before f (~24h) it was some other beam.	
	Robert Grisenti	13:14
RG		
HW	Helmut Weick	13:18
	yes, yesterday 12:30 the degrader was removed. Now stacking ge more beam accumulated.	ets
	01 11 2005001 10051 11 101 <t< th=""><th>13:21</th></t<>	13:21
	Helmut Weick	13:44
HW	actually at 13:44.	
	Jan Glorius	14:03
JC	Helmut, shall we check the degrader effect with another thicknes There should be a clear effect, if the degrader really moves. But r see nothing of this	
	Helmut Weick	14:04
HW	we can it, it is fast, but it was tested carefully with primary beam.	,
	There was difference also today, more beam was accumulated	14:06

	In reply to this message	
	Yes, but it seems not to work as expected.	
	In reply to this message	14:06
	Not really	
	Helmut Weick	14:09
HVV	we can test, just say when.	
	Jan Glorius	14:10
JG	I stopped the DAQ, let's test	
	Are you moving degraders?	14:16
	Otherwise I would restart data taking	14:17
	Helmut Weick	14:21
HW	no, only in direct contact, not by telegram.	
	Shahab Sanjari	15:08
SS	In reply to this message	
	How is this possible?	
	Last year during the E121, 10 hours measurement someone also moved something in FRS we lost vacuum quality drastically	15:09
	Helmut Weick	15:09
HW	Maybe it was in an log file is wrong, because the controller crate viset to manual mode.	was
	Shahab Sanjari	15:10
SS	Grrrr	
	We have to find a way to prevent euch mistakes	15:10
	Jan Glorius	15:12
JG	We don't get beam injected in ESR anymore. SIS shots are howeve good at 2.6e9	r still
	Can someone check FRS devices please	15:13
		15:16
	Geratetyp:	
	Is this an important magnet in ESR?	

Is this an important magnet in ESR?

Sergey Litvinov	15:24
GEIT magnets are electron spectrometer. They should be off	
but the GEOMU1 is a dipole	15:25
which should be always on	15:25

	if it is red, then important magnets are off	15:28
JG	Jan Glorius Okay, thanks. I think we are back in operation.	15:31
HW	Helmut Weick ok, FRS seems fine.	15:32
YL	Yuri Litvinov Jan, what about 15:30 meeting?	15:35
JG	Jan Glorius Sorry, we were busy at ESR panel	15:51
ID	Iris Dillmann I think we just left the meeting. Assumed you were busy. Hope yo have better news and data tomorrow 🙂	15:52 Su
UP	Ulrich Popp I just had to change the gas bottle (hydrogen). After I had to adju inlet pressure. I think it is okay now. I have to go for a meeting w needle (vaccination :))	
JG	Jan Glorius Cobus, Michele, is there a bigger problem? No beam for 30min	17:43
CS	Cobus Swartz Yes, since 17:10 it's been off at the UNILAC.	17:46
JG	Jan Glorius Okay, so the operators are working on it, very good. Thanks	17:46
CS	Cobus Swartz Just got it back.	17:47
	We have resumed data taking.	17:49
JG	Jan Glorius	17:50
RR	Rene Reifarth Do you see something in the center area of the DSSD? (p,g)	18:27
	A few counts Maybe?	18:27
CS	Cobus Swartz	18:29

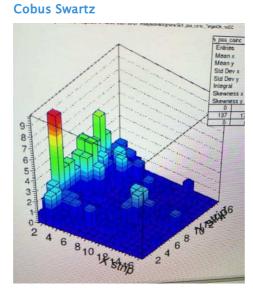
KK	Aha! Very good!	
	Thanks!	18:29
	(yesterday there was just nothing at all. Very suspicious.)	18:30
YL	Yuri Litvinov Hard work of the morning shift!	18:32
JG	<figure></figure>	18:33
YL	Yuri Litvinov Please keep an eye that the ESR on the scheme above the console blue and not red!!	18:33 e is
JG	Jan Glorius In the online go4 we have all counts for 6 MeV in the spectrum.	18:33
	Slowly it starts looking as expected	18:33
CS	Cobus Swartz EST picture on top monitor was red a moment ago.	18:35
	It's blue again now after the operator switched on Ge01KP02 to 09, and 20 to 22.	18:36
YL	Yuri Litvinov Excellent! Kp03 must stay off!	18:36
CS	Cobus Swartz Noted. In the meantime we lost the beam in the SIS.	18:38
	Beam is back.	18:49



Fyi



21:43



(p,g) appears quite clearly now.

TS	Thomas Stöhlker	21:45
	Wow, indeed something is growing 👌	
	Yuri Litvinov	21:45
YL	Looks indeed promising)) if so, then the detector is closer to the than in 7 AMeV setting	e beam
	Laszlo Varga	21:48
LV	In reply to this message	
	By looking at the picture seems like 2mm closer	
	Yuri Litvinov	21:49
YL	But I would not move it now. Let us take as much statistics as po	ossible.
	Laszlo Varga	21:49
LV	In reply to this message	21.49
	Yes, exactly	
TS	Thomas Stöhlker	21:49
	Golden role:never put a solid state detector as close as 0 mm to beam. I once did but I will not tell you about the result 😥	tne
YL	N	21 50
	Yuri Litvinov	21:50
	Please keep an eye on the blue ESR Pictogram above the ESR cor turned red, please inform the operators	isole. If







CS

Cobus Swartz

We are. It's still blue for now.

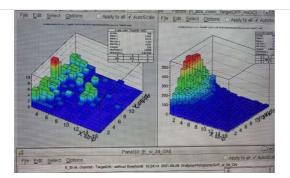
	At least the stacking looks awful	21:55
CS	Cobus Swartz We know.	21:56
	They are looking at it.	21:56
JG	Jan Glorius Ah, much better	21:59
CS	Cobus Swartz Yes, it looks much healthier now.	22:02
	28 May 2021	
SL	Sergey Litvinov KP 17-20 are off	00:11
MW	Mario Weigand Operators try to solve it	00:11
YL	Yuri Litvinov Restart the scu and send afterwards the whole context	00:12
SL	Sergey Litvinov does not help	00:12
YL	Yuri Litvinov If several are off, then the control unit hangs	00:13
	These get off pretty often	00:14
MW	Mario Weigand We have the impression since ESR is back online we don't see any events anymore. Butwe don't see the problem Anyone there?	03:00 p,g
LV	Laszlo Varga I am awake 🙂	03:01
	Well isnt the rate like less than few counts/hour?	03:02
	However, where you can judge more, I think, is the xray spectra	03:02
	If the krec peak grows at the right place	03:03
MW	Mario Weigand We didnt see ine count on the Si in one hour if Im not mistaken	03:03
LV	Laszlo Varga It means we have correct beam + target	03:03
	In reply to this message Hmm, are the histos rolling?	03:03

Mario Weigand

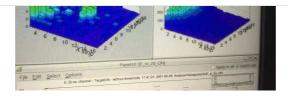
LV	Laszlo Varga And neizher the xray peaks are growing?	03:04
MW	Mario Weigand Now beam is gone	03:04
LV	Laszlo Varga Than alert the operators	03:05
	*then	03:05
MW	Mario Weigand They are already on it	03:05
LV	Laszlo Varga	03:05
	Hmm, few counts you should see anyhow on the Si spectra	03:06
	Ypu didnt see only for the target on spectra jn the last hour?	03:06
	Or also nothing for the target off?	03:06
MW	Mario Weigand	03:08
	Not sure about that one, but nothing on Target on	
LV	Laszlo Varga Do.we have good target density?	03:09
MW	Mario Weigand Yes	03:09
LV	Laszlo Varga Also on the lassie you see the esr cycle?	03:10
	I mean in the last hour	03:10
MW	Mario Weigand Yes	03:11
LV	Laszlo Varga Than in principle we should be fine hmm	03:11
	Make maybe a picture of the si on/off histos	03:12
	And the 90deg krec peak	03:12
	And look at it in a half an hour again	03:12
MW	Mario Weigand	03:13

	Laszlo Varga	03:15
LV	In reply to this message	
	Hmm, it is hard tp see in this. zoom the histo on the x axis mayb 3300-3600	e from
	So last 5min	03:15
	Or if there was no beam now, then maybe a bit more	03:15
MW	Mario Weigand	03:16
	Image: State Image: State State State Image: State	
	No Si on events	03:16
LV	Laszlo Varga Hmm	03:16
	esr cycle is running?	03:17
	The pattern, and on the lassie you see it accordingly?	03:18
MW	Mario Weigand We saw it while we had still beam	03:19
LV	Laszlo Varga Hmm	03:19
	Well	03:19
	If we have target and beam as well then i am out iof ideas	03:20
	Beam intensities were roughly fine?	03:20
	If have beam again, can you make a picture of the lassie monitor?	03:21
MW	Mario Weigand Ok	03:21
LV	Laszlo Varga Be sure that go4 is not frozen or something	03:27
	Maybe try to check the rate monitoe	03:27
	Monitor when we have back the beam	03:27
	In the target on phase the xray_bdt should show some numbers in the range of 110	03:28
	At least in the first second	03:28

MIW	No 😔	
LV	Laszlo Varga	03:37
	Yeah, i see iz on the online go4	
	The xray rates in the target on phase were like 60, which is at the background level super strange	03:39
	Like half an hour ago	03:39
	Mario Weigand	03:41
MW	Yes it was higher before the esr failure	
	Just getting beam back	03:41
		02.42
LV	Laszlo Varga Lets see	03:42
MW	Mario Weigand	03:44
	Now we had a target on event	
	Looks better now for some reason	03:44
	Laszlo Varga	03:45
LV	Xray rates is like 90	
	What i see at least	03:45
	We had 2 counts on the Si as well	03:45
	Mario Weigand	03:45
MW	Yes	00.10
LV	Laszlo Varga	03:45
	Maybe not pg but counts 😂	
	So	03:47
	110xray-bdtON	03:47
	Looks promising	03:47
	Mario Weigand	03:47
MW		
	Laszlo Varga	03:48
LV	Acompanied with 4 counts on the Si	03.40
	So, hopefully the problem solved itself 🙂	03:49
	Yeah, the new shoot looks good as well	03:50
MW	Mario Weigand	03:51
	I dont understand why, but apparantly it solved itself 😊	
	Yuri Litvinov	10:23
YL	Could you please post the current 3D plots	



RR	Rene Reifarth No beam right now. Had interruptions	10:24
YL	Yuri Litvinov ESR blue?	10:24
RR	Rene Reifarth Alvarez	10:25
YL	Yuri Litvinov ((10:25
RR	Rene Reifarth Longer break expected. Problem not yet located, hence no estima	10:53 ate.
YL	Yuri Litvinov grrrh grhhh	10:53
UP	Ulrich Popp https://mastodon.popps.org/system/cache/media_attachments/ /106/308/385/340/300/943/original/b46d3aa1f2d8b22b.jpg (couldnt resist)	
LV	Laszlo Varga In reply to this message Classic 📾	12:37
RR	Rene Reifarth No beam for the next 2-3 h (at least)	15:36
RR	Rene Reifarth beam might be back ~5:30	16:27
R	Ragandeep Beam is back 😃 🖔	16:42
YL	Yuri Litvinov One full shift(((16:43
R	Ragandeep	17:42





Rene Reifarth Nice! 17:54

Next messages