ARES Operation Meeting

Summary of week 48 / 2022

Willi Kuropka, on behalf of the ARES crew





Summary of week 48

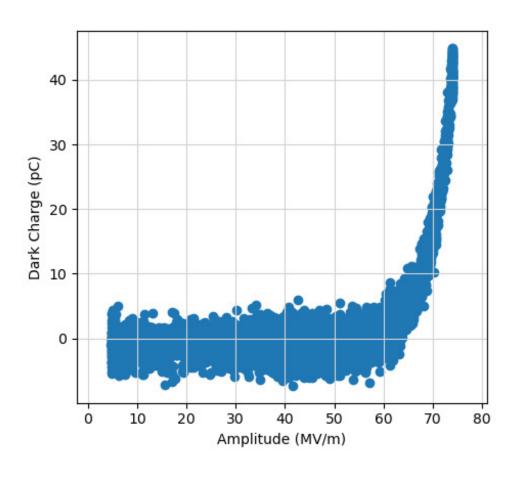
Achievements

Difficulties

Mon	Tue	Wed	Thu	Fri
 Cellar painting X-band cabling Scintillator BPM prototype installed FL screen station scintillator replaced 	 New FL scintillator tested Adjusted LLRF settings of the gun with Matthias (MSK) Tested scintillator BPM with Hossein 	 Work on BPM parameters by Bastian (MDI) Testing large beam sizes in FL section Acquired charge vs. pharos user attenuator data for gun simulations SH.E2 screen charge calibration test 	 Characterizing beam in low energy section AutoAcc:Continuing BO vs. RL studies at higher charges for space charge influence 	 Tunnel search training Gun beam characterization Charge map tool testing TWS2 phase correction doocs server/panel tests Pulse shot mode and charge counter tests
• Tunnel open	Gun modulator charge voltage	Increased gun modulator		DAQ configuration/tests by
- типпегореп	is limiting klystron output	 charge voltage in 5V steps during the day Then increased gun SP over night 		 V. Rybnikov Tunnel opened for the weekend

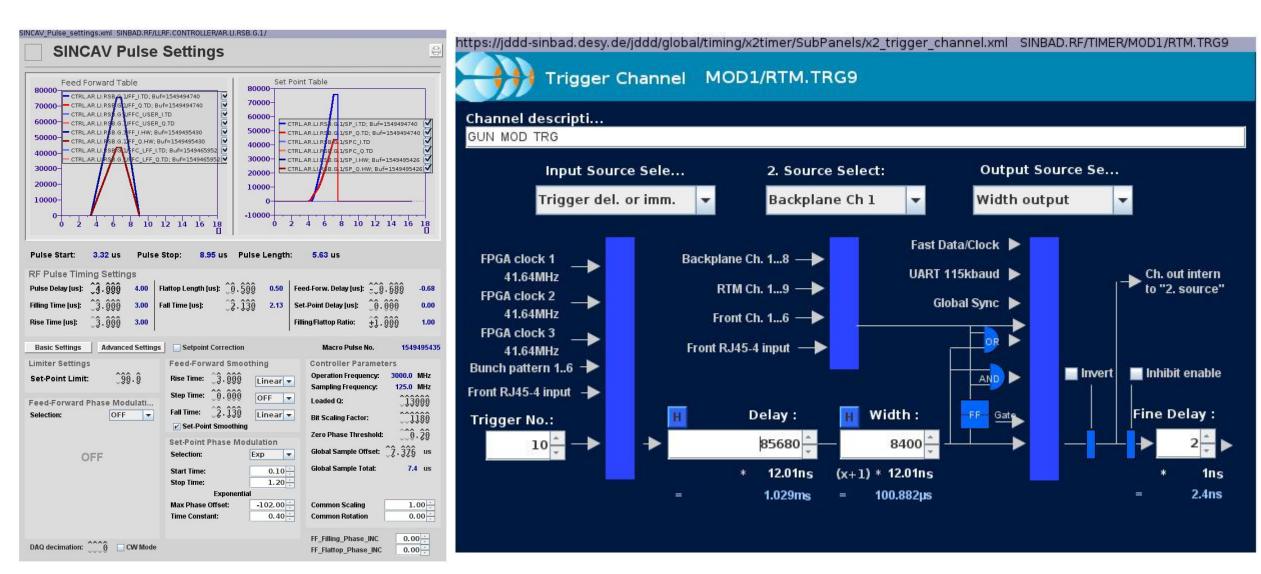
Recent dark charge measurement

Still old low level RF settings

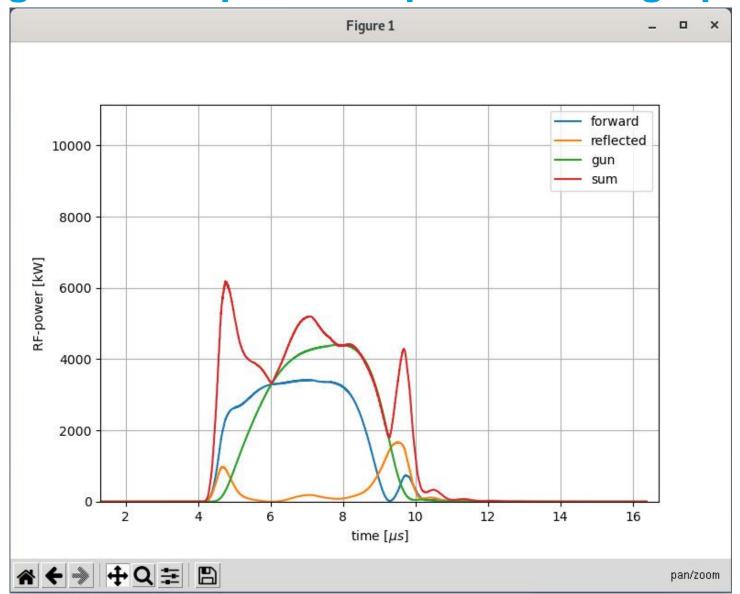


Adjusted gun pulse settings and moved modulator pulse timing

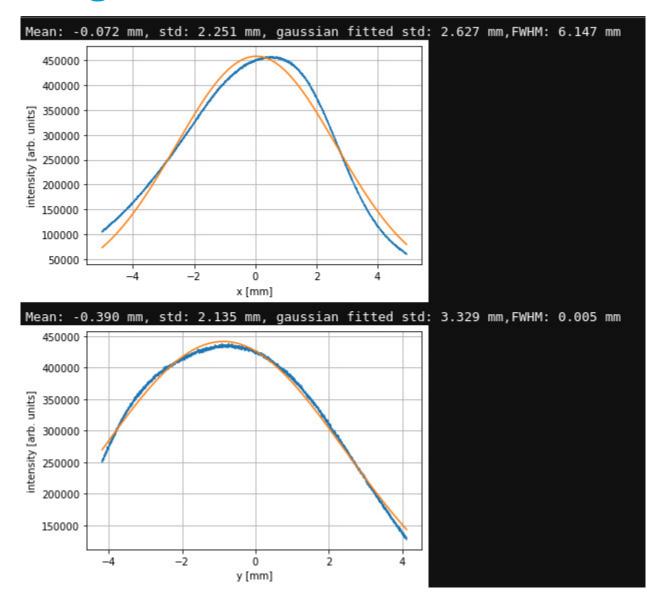
New settings

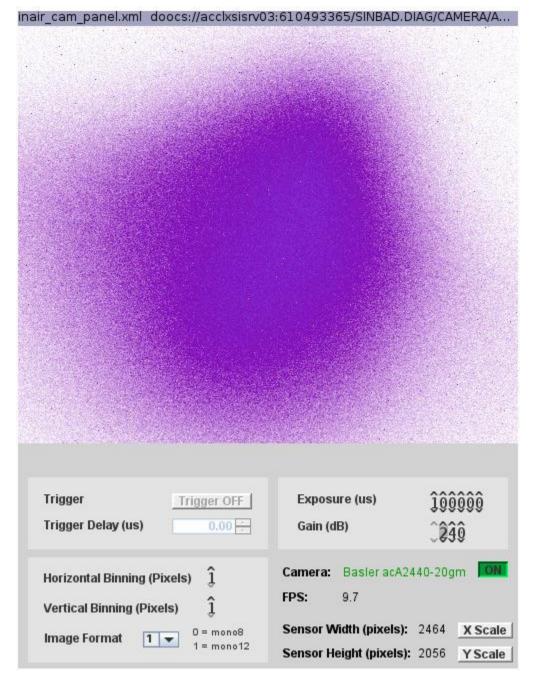


Gun power signals after pulse shape and timing optimization



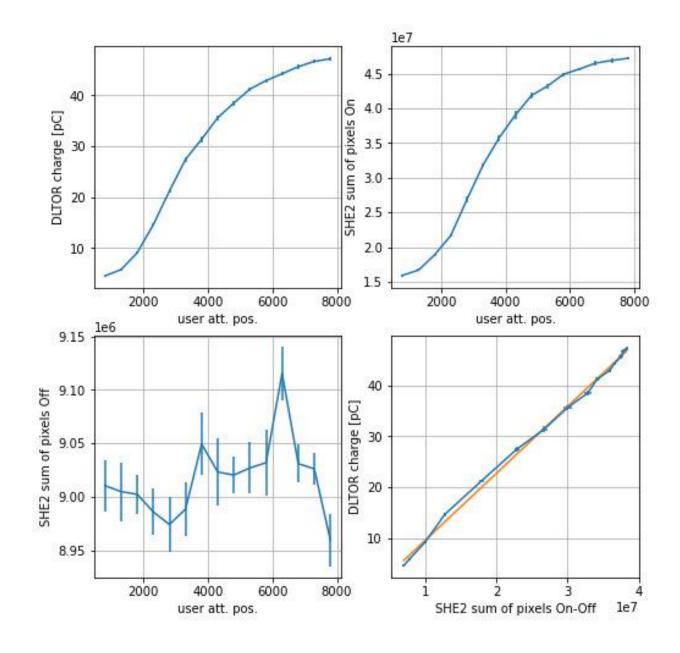
Larger beam size in FL section



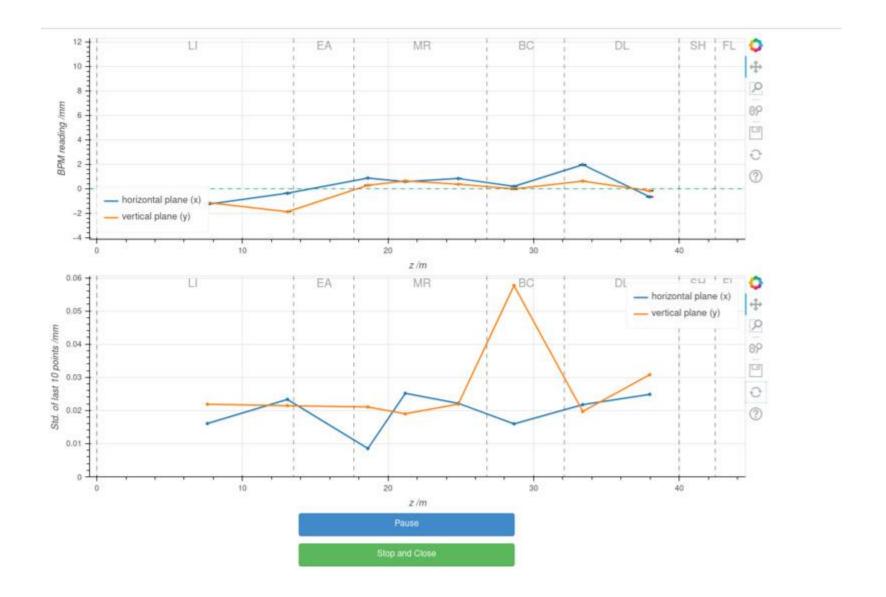


Screen charge calibration

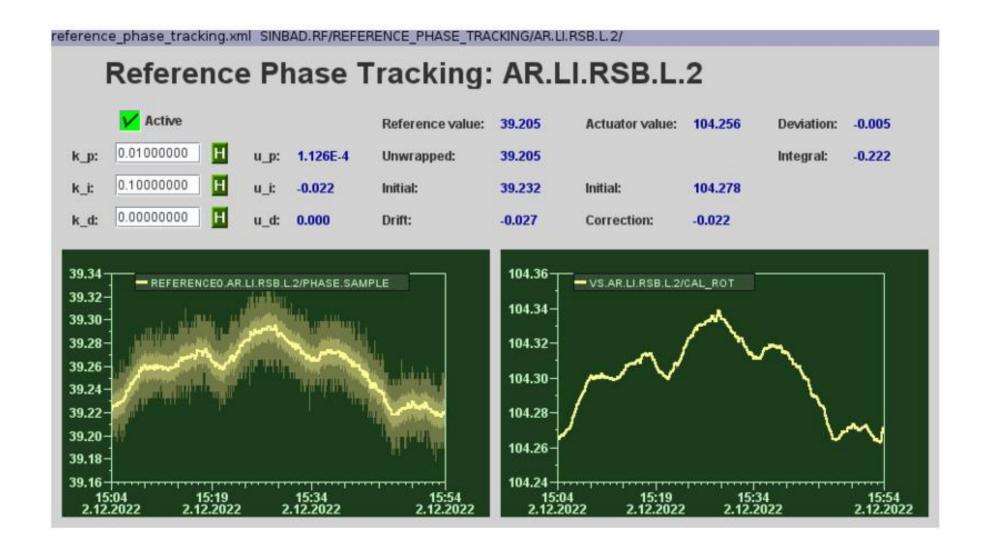
We tested the routine for different binning and gain settings of the camera as well as for different charge ranges. Unfortunately, the values are inconsistent and need further investigation.



Orbit live tool



TWS2 reference phase tracking panel



Today

- MIN cabling work for PolariX
- Painting of modulator cellar
- MCS work

Plan for this week

- Establish larger beam size in FL section
- Wednesday MDI intensity monitor tests
- Thursday AutoAcc
- Friday visit by CLARA operation lead
- Friday arrival time stability measurement

Schedule

Week 49

Date	Schedule
05.12.	Tunnel open
06.12.	Willi Kuropka
07.12.	Frank Mayet
08.12.	(Hannes Dinter)
09.12.	Thomas Vinatier

If you want to learn or join the shift: please give the shift leader a call (BKR 2840 / SINBAD Box 2454)