

ARES Operation Meeting

Summary of week 29 / 2022

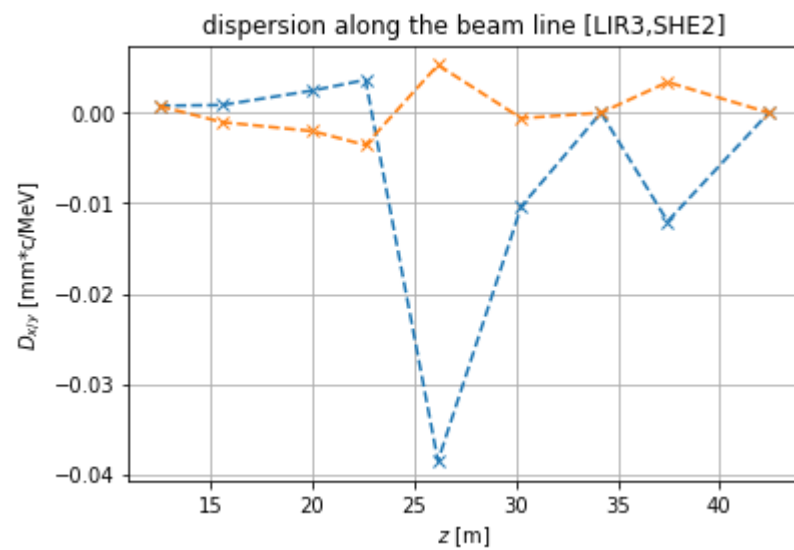
Hannes Dinter, on behalf of the ARES crew

Summary of week 29

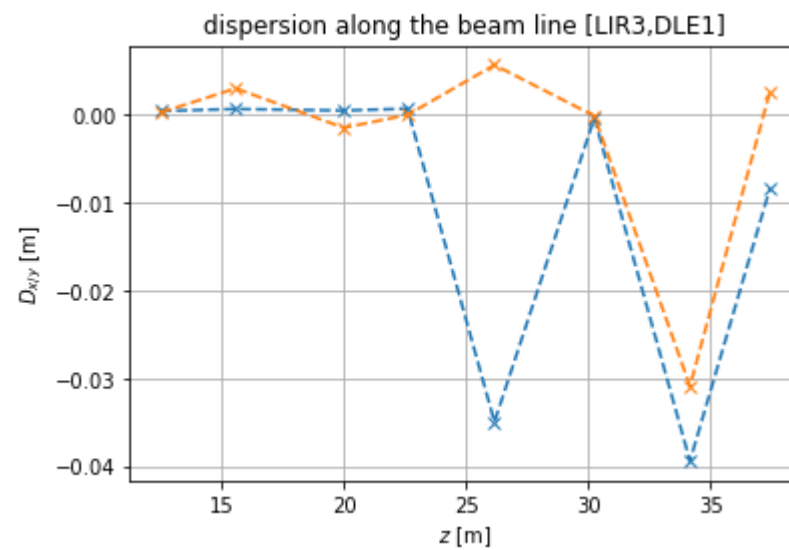
	Mon. 18 th July	Tue. 19 th July	Wed. 20 th July	Thu. 21 st July	Fri. 22 nd July
Achievements	(Tunnel open)	- Start up - Operator training - Dispersion measurement	- Dispersion measurement including BC - Automating dispersion measurement - Checking quadrupole settings vs. ocelot simulation	- Autonomous ARES - Test quad misalignment measurement notebook - beam-to-quads auto-alignment - Tunnel open for visit & quadrupole position measurement - Operator training during start-up - Over night: stability measurement on LI.R1 including Gun OVC	- Trying geometrical alignment with TWS1 - Velocity bunching measurements - Over weekend: detailed charge map
Difficulties		Power glitch (restarting TWS RF stations was necessary)	- Camera SL.S1 not reachable, restarted server, serials were scrambled (fixed by expert) - Screen station MR.R3 calibration coefficients were off (missing a zero), corrected now	Rightmost Linux console frozen (not even pingable), restarted without problems	- No signal on BPM for this low charge - Saturday: card in MPS SPS crashed

Dispersion measurements

2022-07-19



2022-07-20



Automated beam quadrupole alignment

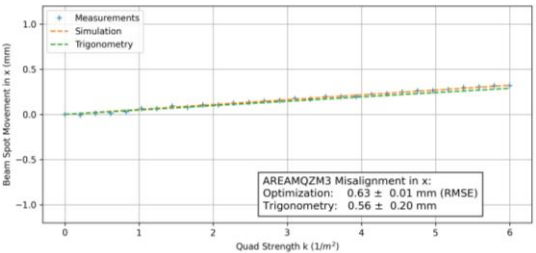
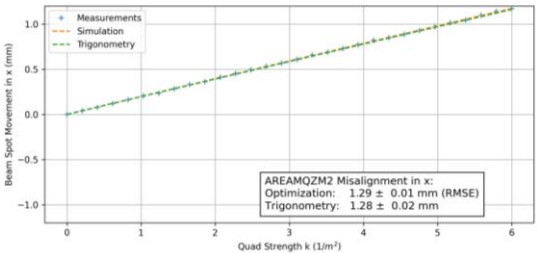
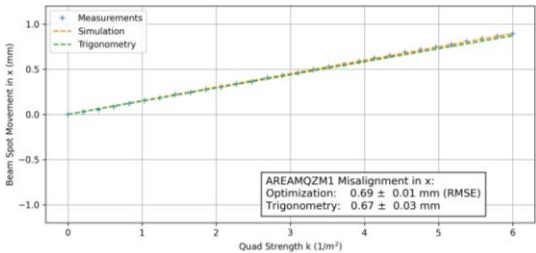
AREAMQZM1

AREAMQZM2

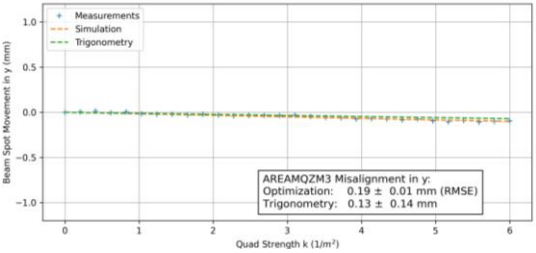
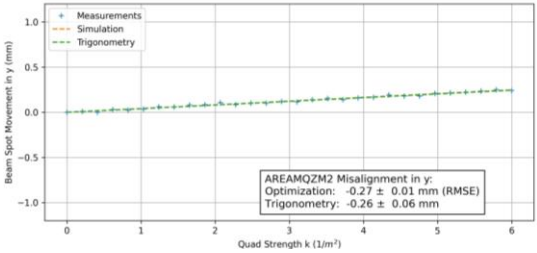
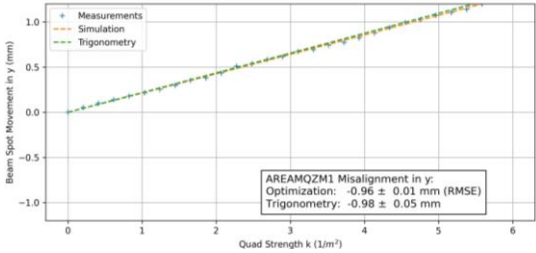
AREAMQZM3

Before:

x:

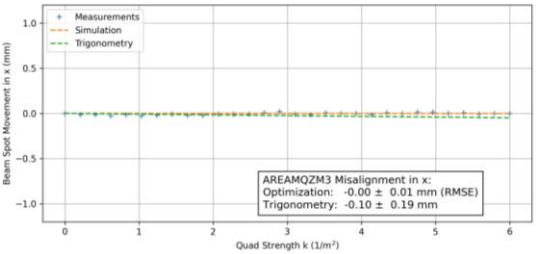
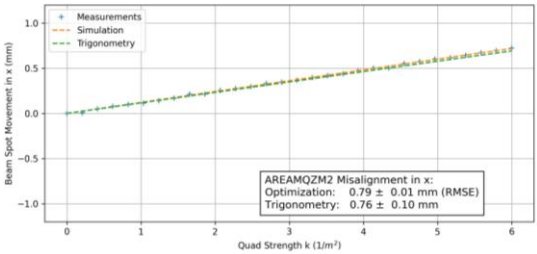
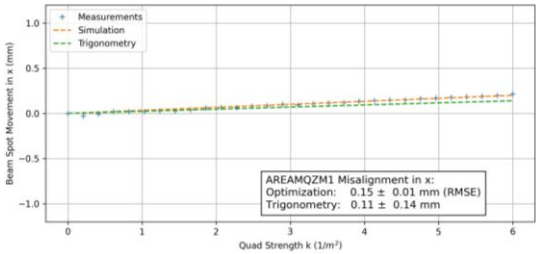


y:

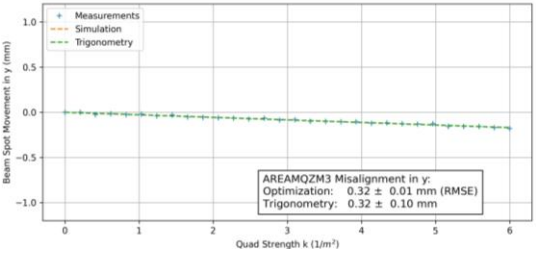
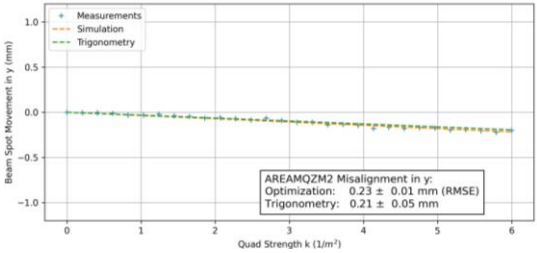
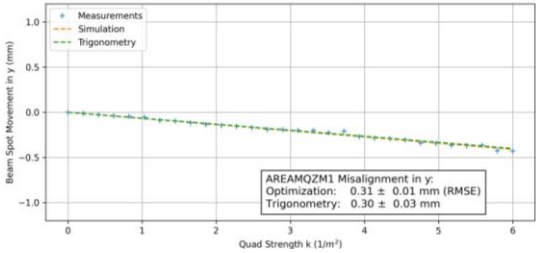


After:

x:



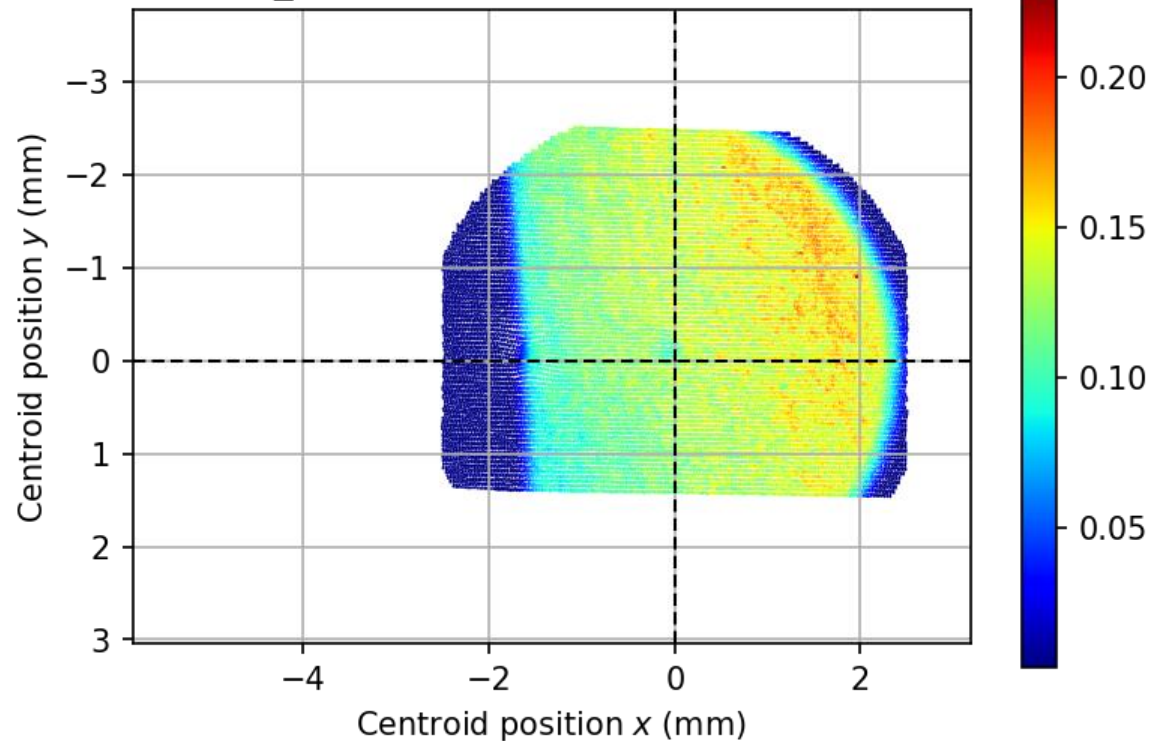
y:



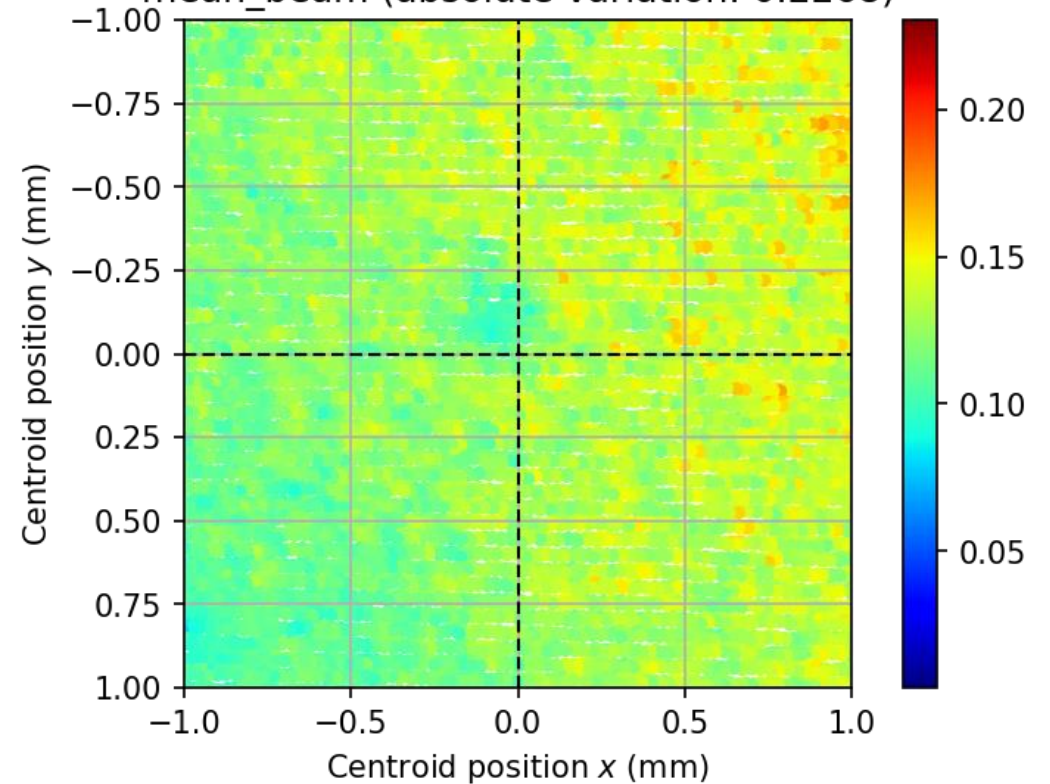
Charge map using 50 μ m aperture

(incomplete due to MPS SPS failure on Saturday)

SINBAD.DIAG/DARKC_MON/AR.LI.BCM.G.1/DARKCURRENT.CALC
mean_beam (absolute variation: 0.2268)



SINBAD.DIAG/DARKC_MON/AR.LI.BCM.G.1/DARKCURRENT.CALC
mean_beam (absolute variation: 0.2268)



Schedule

Week 30

Date	Schedule
25.07.	Tunnel open
26.07.	Thomas
27.07.	Willi
28.07.	Hannes
29.07.	Frank

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