

ARES Operation Meeting

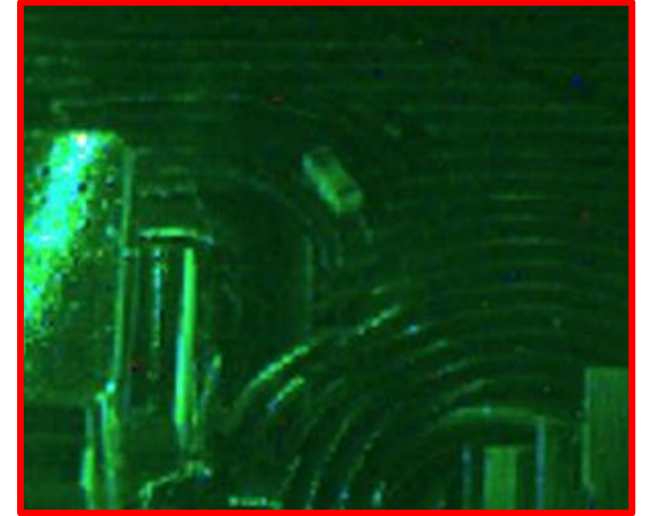
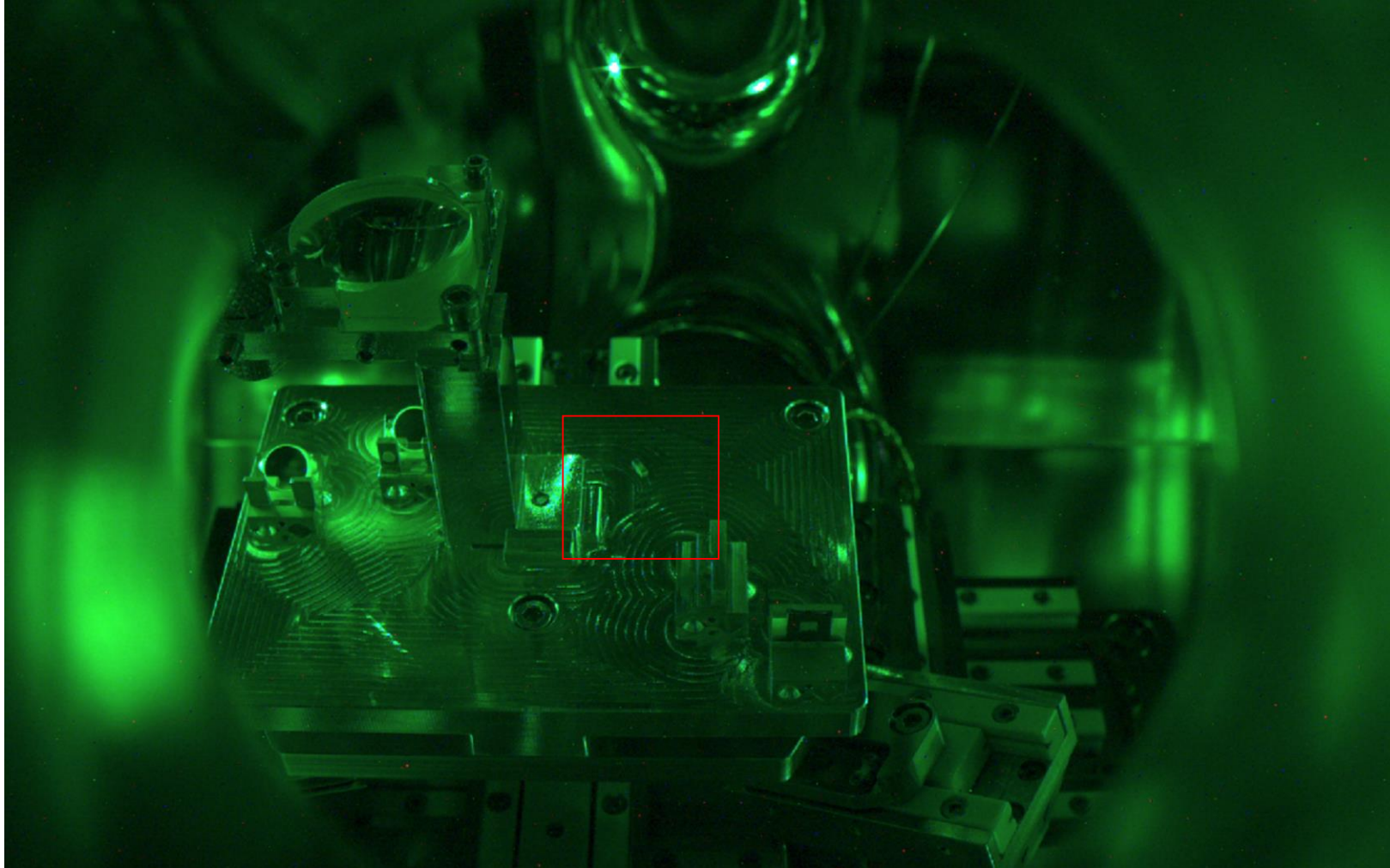
Summary of week 27 / 2022

Willi Kuropka, on behalf of the ARES crew

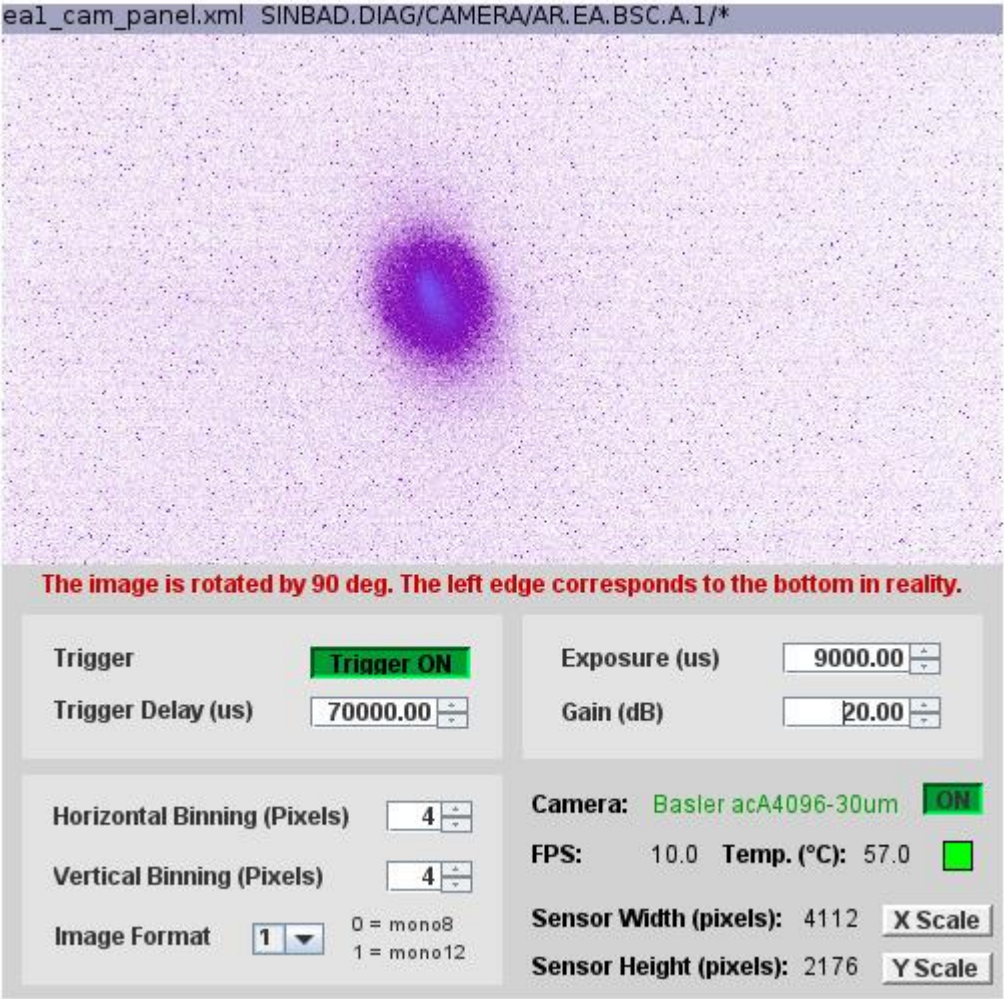
Summary of week 27

	Mon. 4 th June	Tue. 5 th June	Wed. 6 th June	Thu. 7 th June	Fri. 8 th June
Achievements	- Added some lead to the laser table in the tunnel - Resumed operation - Testing new ACHIP WP - Stability measurement to check if added weight on the laser table was beneficial	- Setup for 4D tomography - Measuring emittance using the wire scanner in the EA chamber over night - reduced acceleration and top speed of the hexapod	- Quad scans for emittance - Setting up tomography working point - Starting supervised 4D tomography using 5 quads	- Finished tomography - Testing beam position stability in the gun section with the collimator - Trying discrete position feedback	- Access for quad alignment - In air screen station in FL section installed - Complementing TWS1 compression curve with additional set points
Difficulties		DLA fragment moving on the hexapod - solved	Focus in the EA chamber was not sharp enough to do a z-scan for emittance		Beam position stability not improved, yet

Overview in EA chamber – overview cam reinstalled

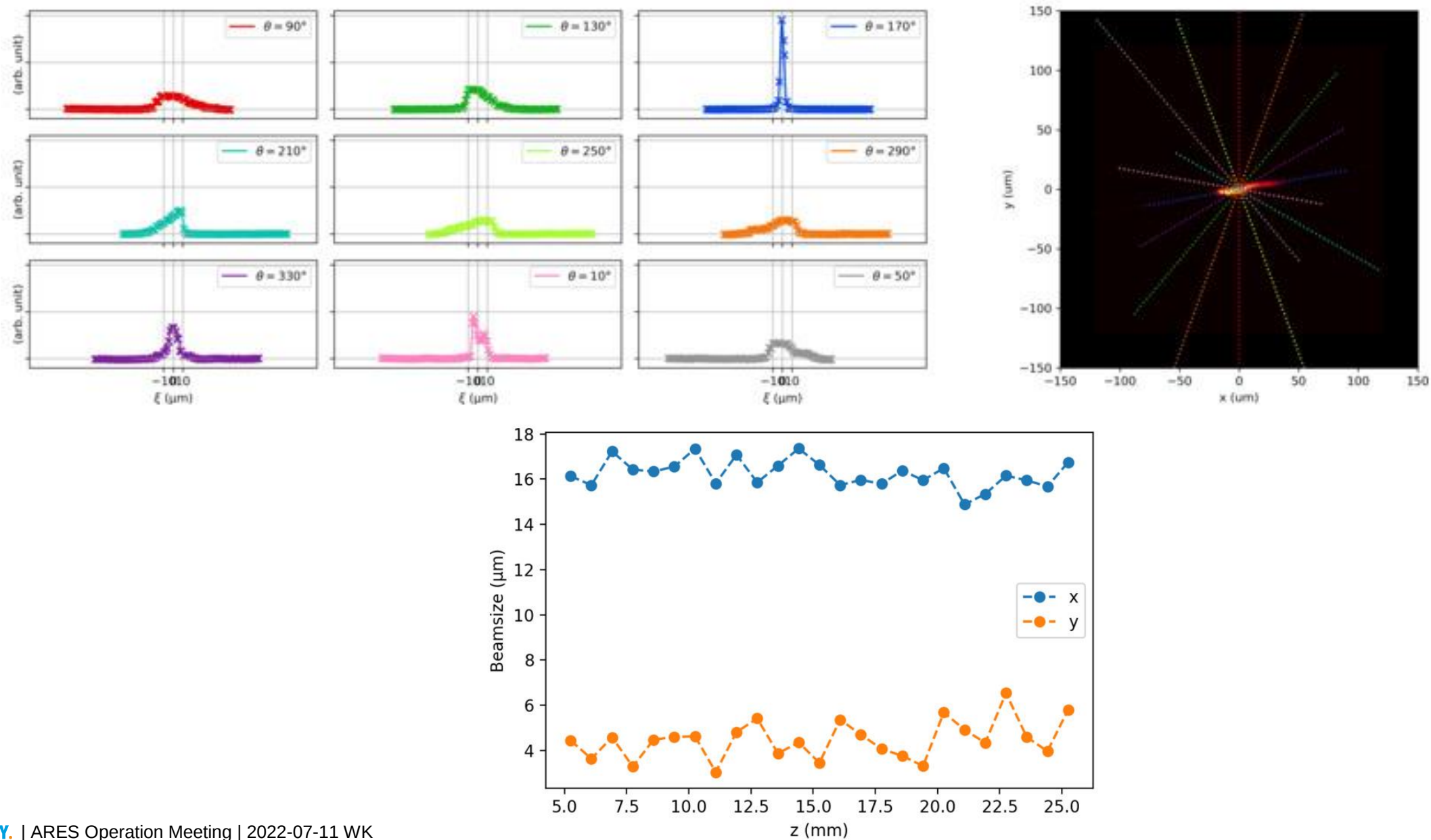


Beam focused on EAA1 screen

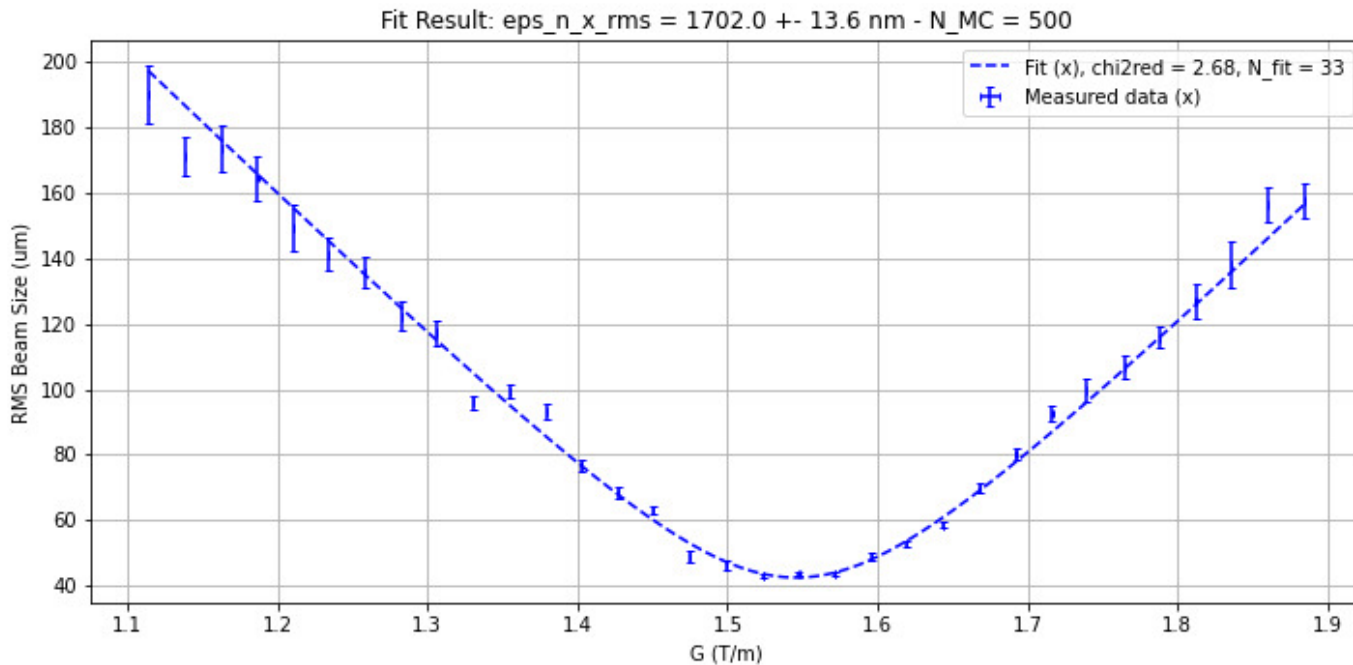
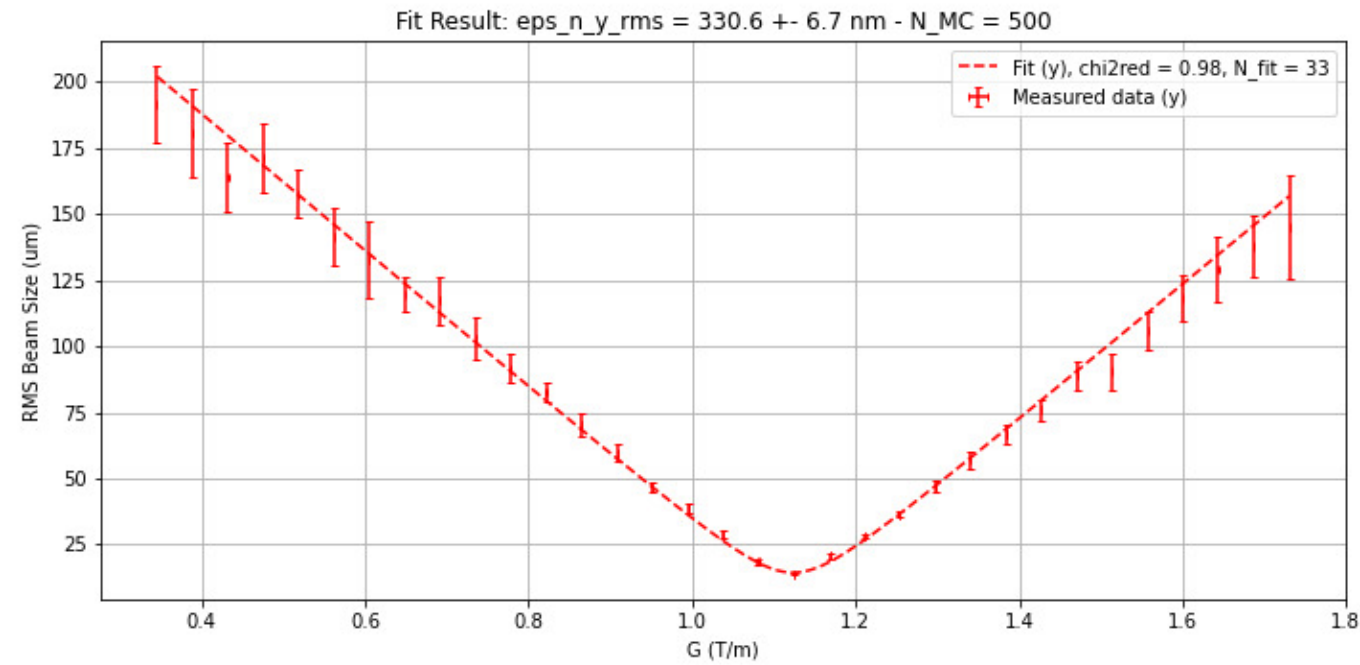


Ring artefact very likely from the reflection of the screen back side

Wirescanner z-scan



Quad scans on BCE1 screen



- Very asymmetric emittances
- We will try to do a quad scan with the wire scanner to confirm
- Maybe from screen artefact?

Plan for the week

- eCT setup uninstalled
- Light bulbs of the laser interlock tableau exchanged
- Quad misalignment measurements after first alignment step
- Quad strength measurements, matching comparison
- BC dispersion compensation
- AutoAcc shifts on Tuesday and Thursday

Schedule

Week 28

Date	Shift Leader
02.05.	<i>Tunnel open</i>
03.05	Willi, AutoAcc
04.05	Willi
05.05.	Hannes, AutoAcc
06.05.	Thomas
07.05.	
08.05.	

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