

ARES Operation Meeting

Summary of week 31 / 2022

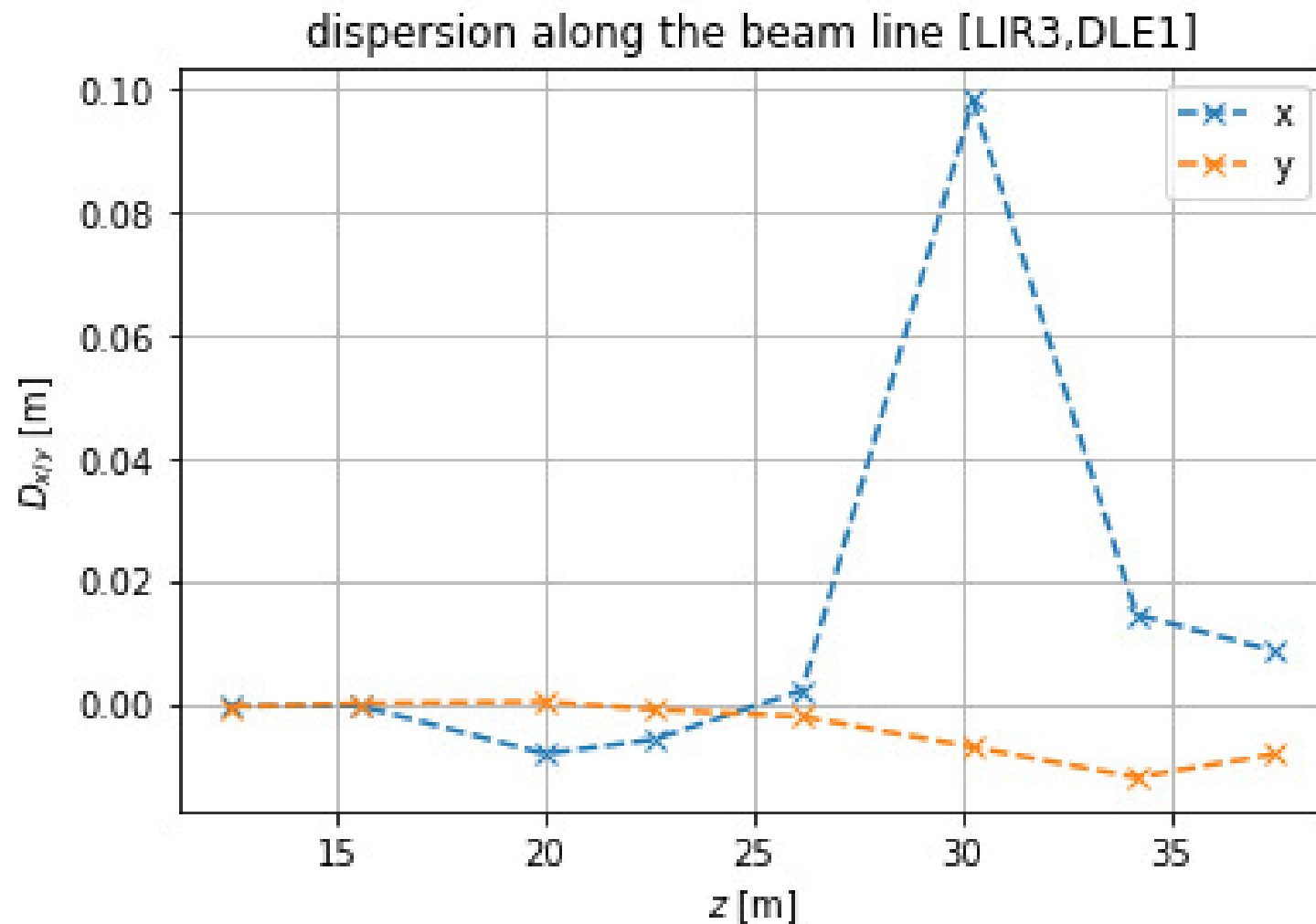
Willi Kuropka, on behalf of the ARES crew

Summary of week 31

	Mon. 01.08.	Tue. 02.08.	Wed. 03.08.	Thu. 04.08.	Fri. 05.08.
Achievements	• STRIDENAS test • Adjusting FL section screen station	• Optimizing dispersion measurements • BC commissioning	• Dispersion measurements • Wire scanner quad scan • BC collimator commissioning	• AutoAcc shift • STRIDENAS beam test	• Wire scanner quad scan • STRIDENAS beam test
Difficulties					• Network issues with a number of doocs servers not reachable – solved by MCS

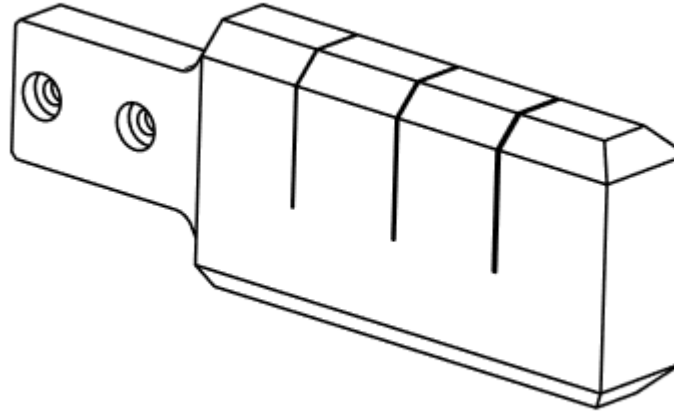
Dispersion measurement along ARES

BC fits ASTRA model well, so far



BC shape collimator

All apertures are within reach of the mover, when beam centered on BC.E1



- 600um,400um,200um slit shapes
- Mover steps vs. transmission

Collimator_Mover_BC.xml SINBAD.DIAG/COLLIMATOR.ML/AR.BC.SLH.B.1.HOR/

Collimator Mover ARBCSLHB1

Adjust position in x-direction: Current position: 10

Manual adjustment: move to:

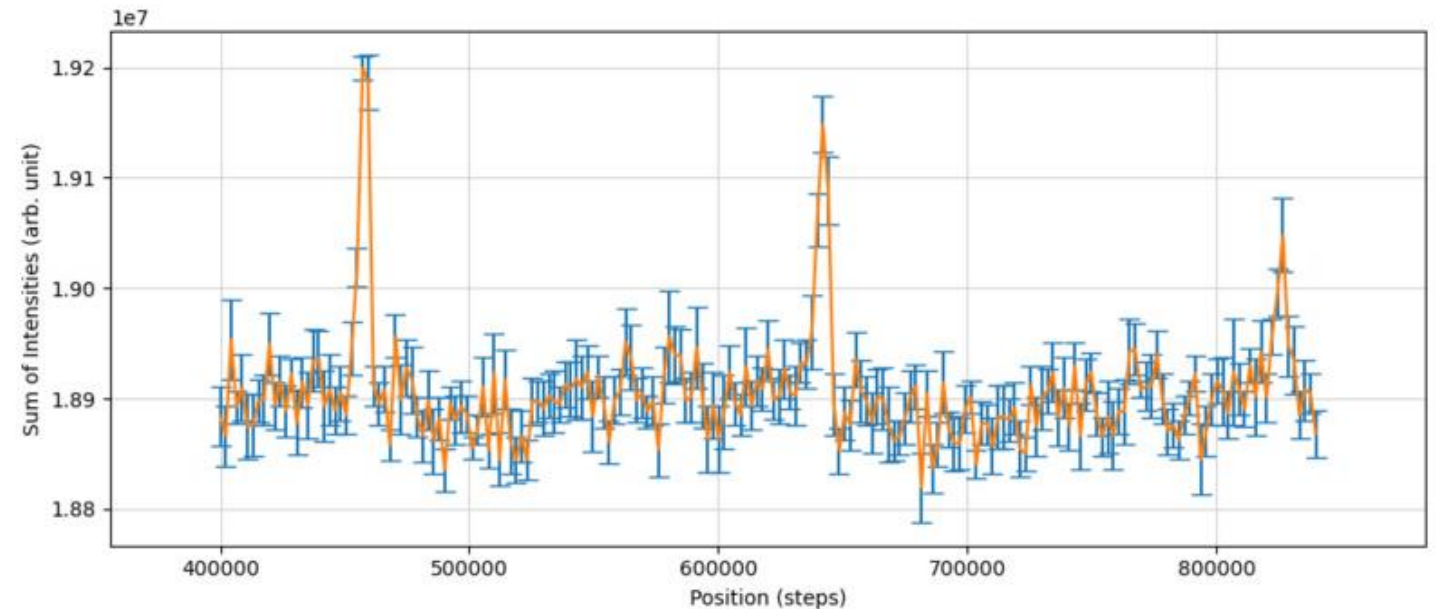
Move to position:

0.2 mm	Reference value: 400000
0.4 mm	Reference value: 500000
0.6 mm	Reference value: 600000
Move OUT	Reference value: 0

Adjust position in y-direction (up/down): Current position: 0

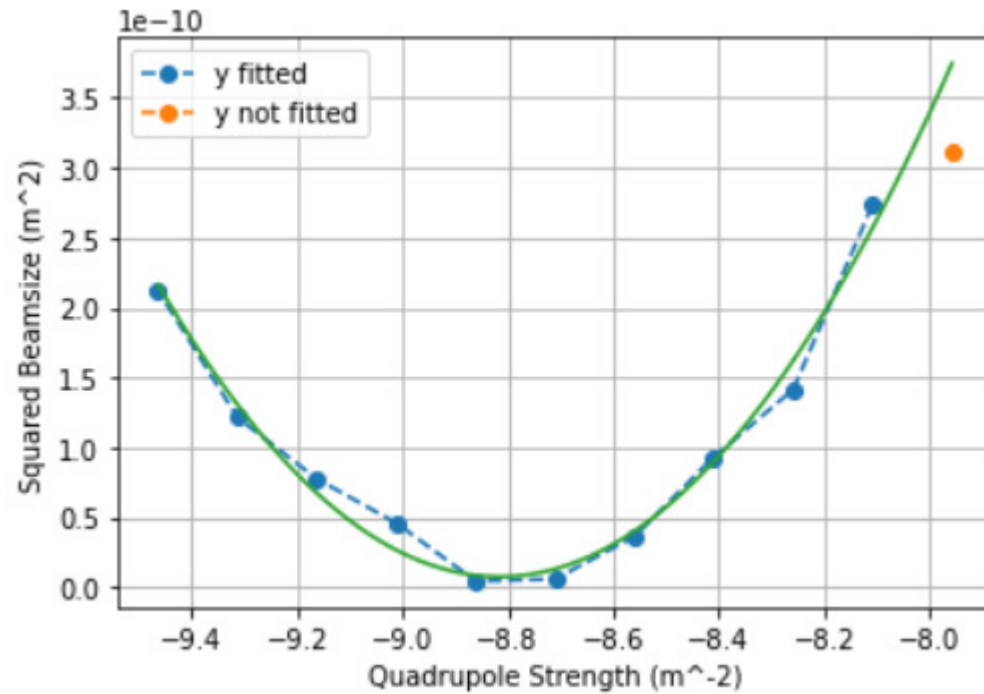
Move to:

Maximum steps: 188000

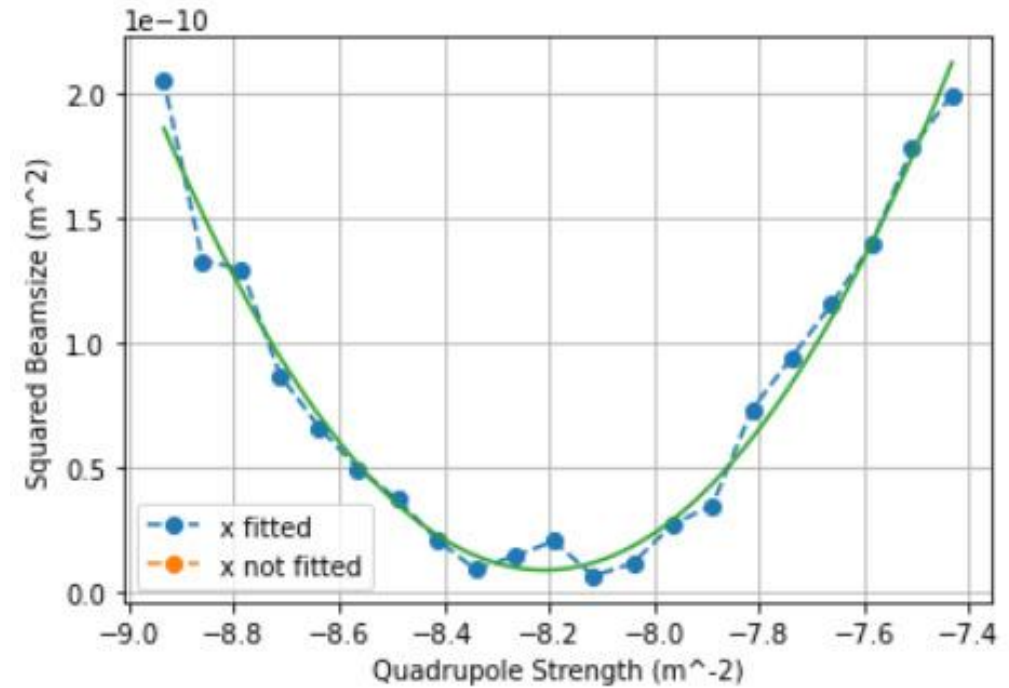


Wire scanner quad scan

preliminary results!

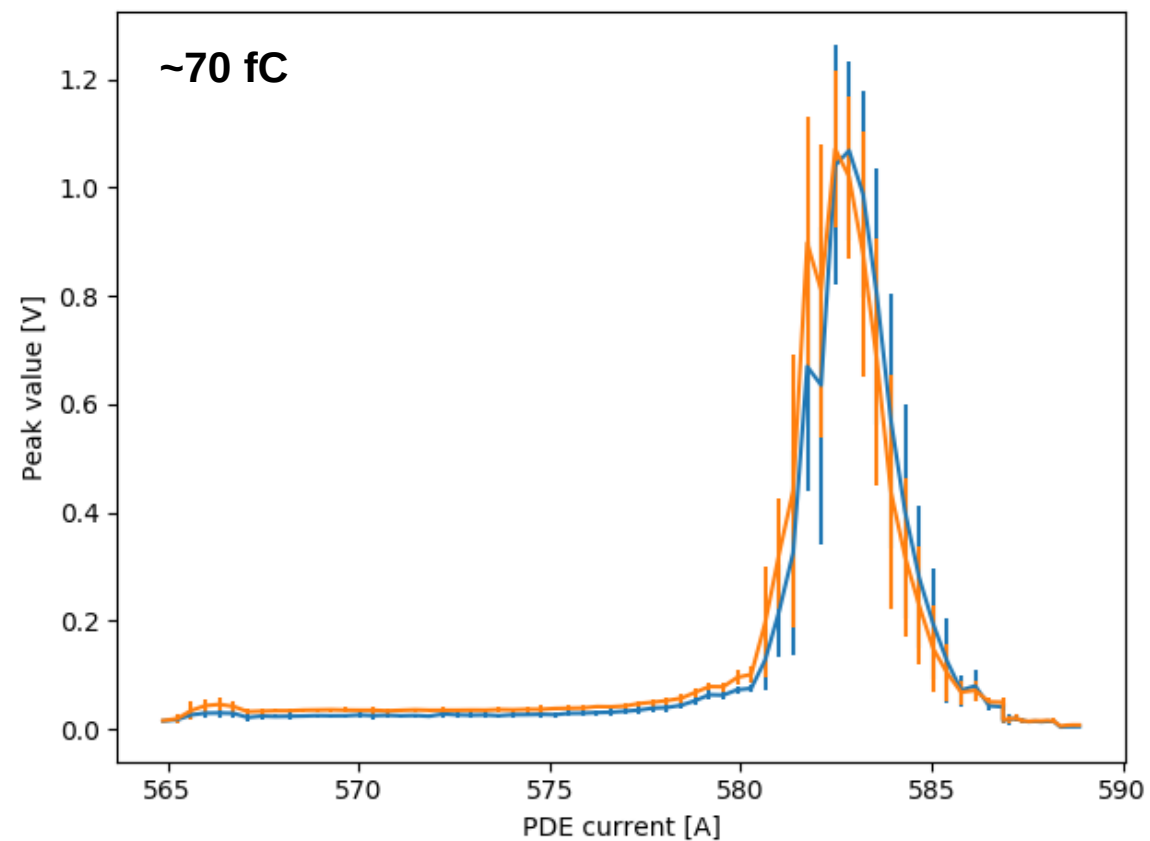
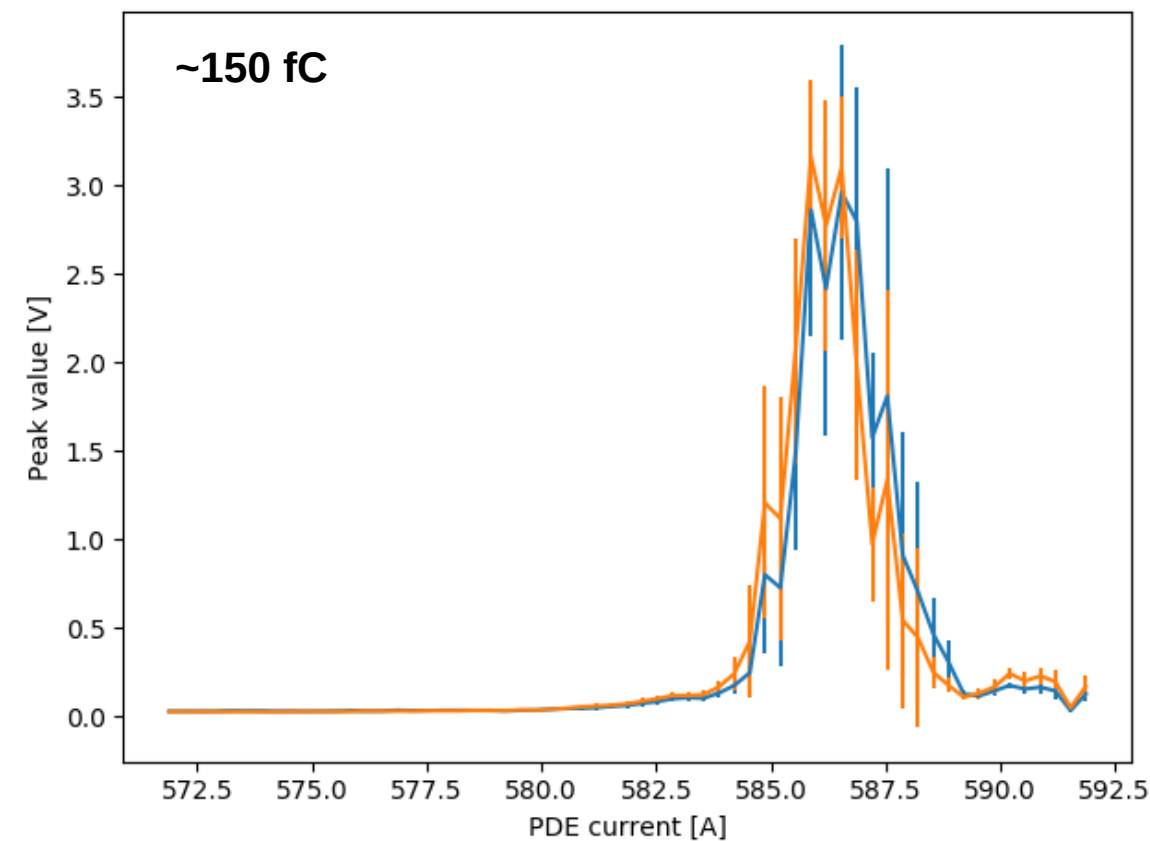


Normalized Emittance = (35.07576484833951 pm 14.634820132716161) nm



Normalized Emittance = (30.351885923301104 pm 5.247839472533824) nm

STRIDENAS beam profile measurements



Plan for the week

- Today: Tunnel door at 25d gets door closing mechanism, maybe FL section wire scanner replacement
- More wire scanner quad scans
- Bunch compressor commissioning
- STRIDENAS beam test

Schedule

Week 32

Date	Shift Leader
08.08.	<i>Tunnel open</i>
09.08.	Hannes
10.08	Willi
11.08.	Hannes
12.08.	Willi
13.08.	
14.08.	

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