

# ARES Operation Meeting

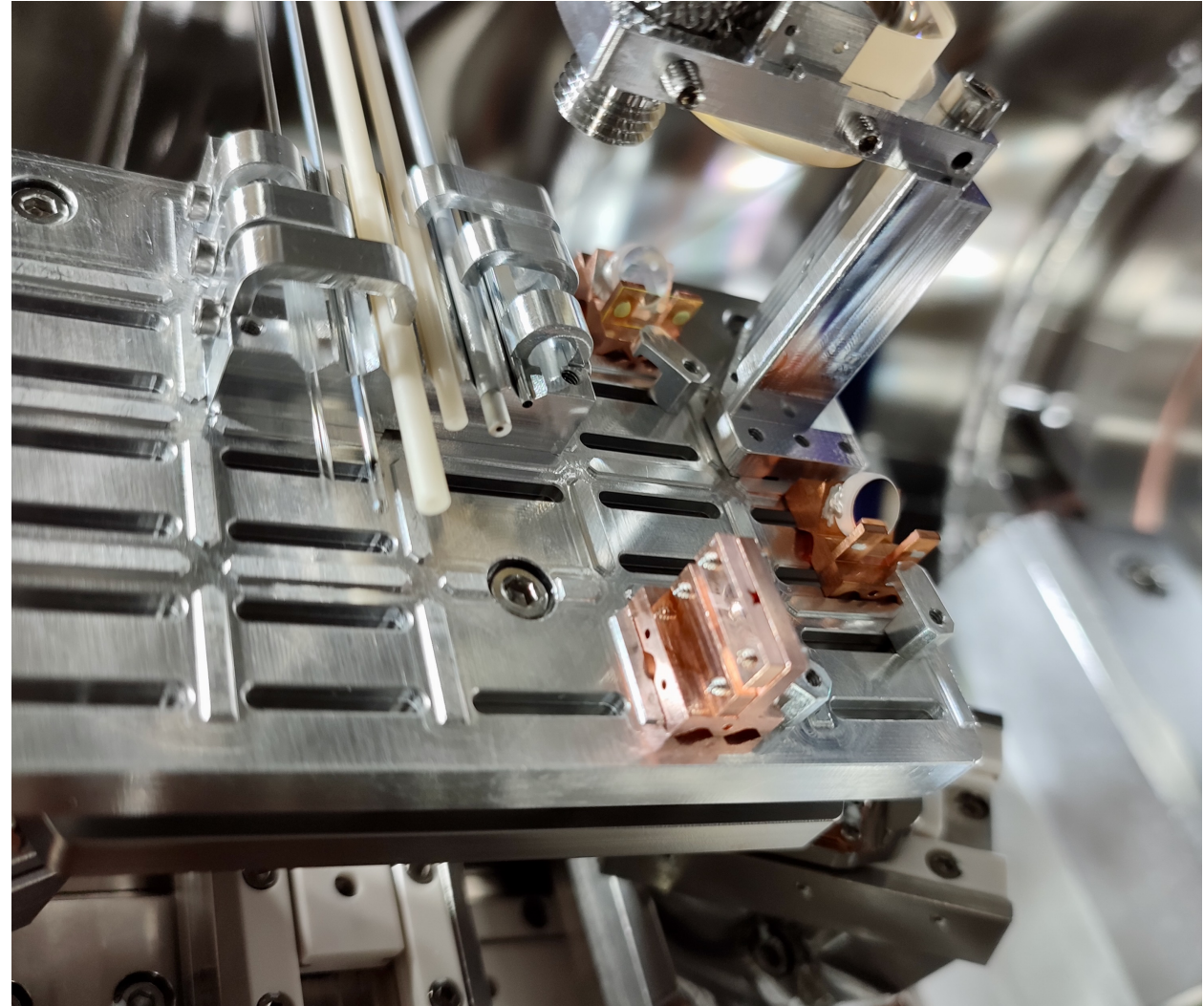
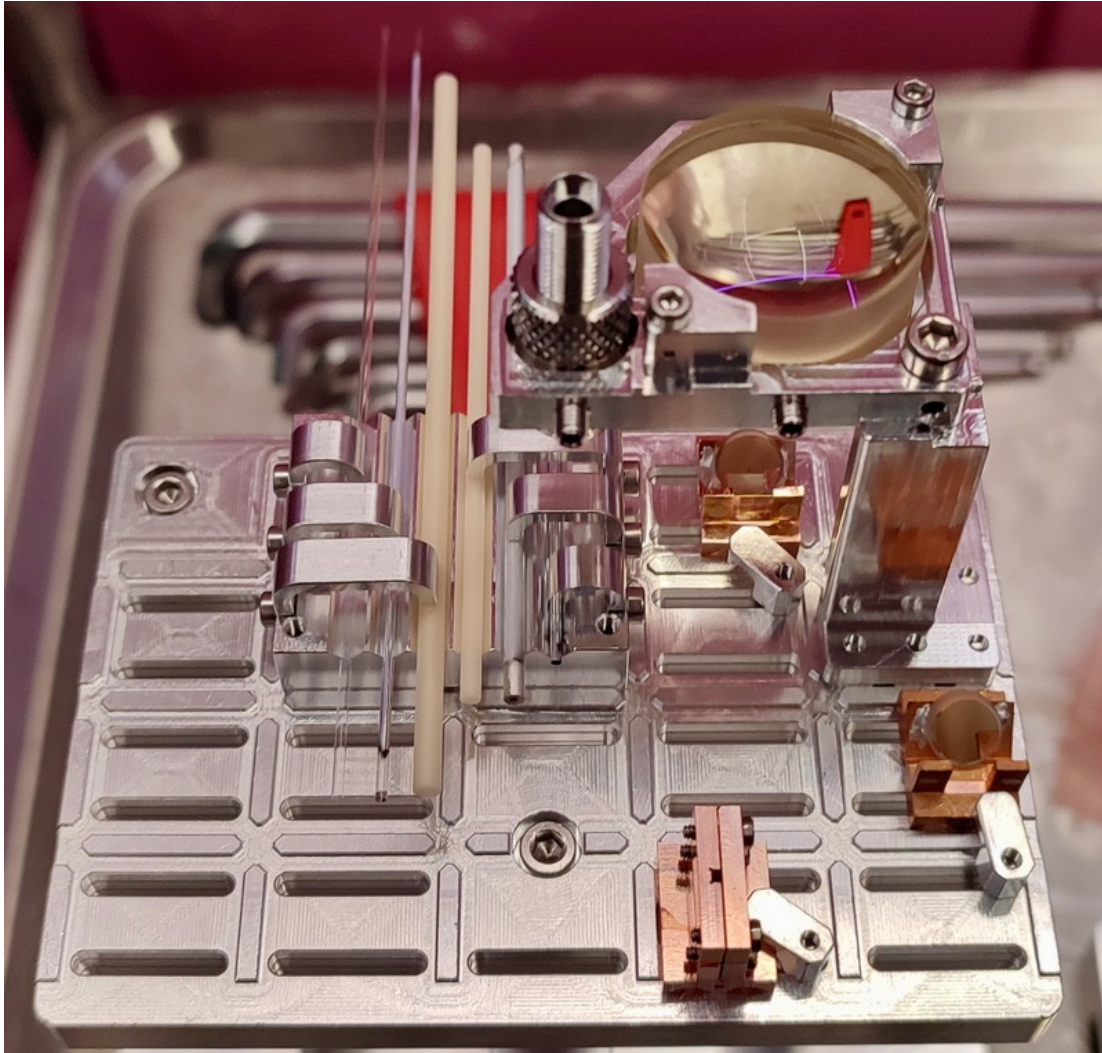
Summary of week 07 / 2024

**Max Kellermeier**, on behalf of the ARES crew

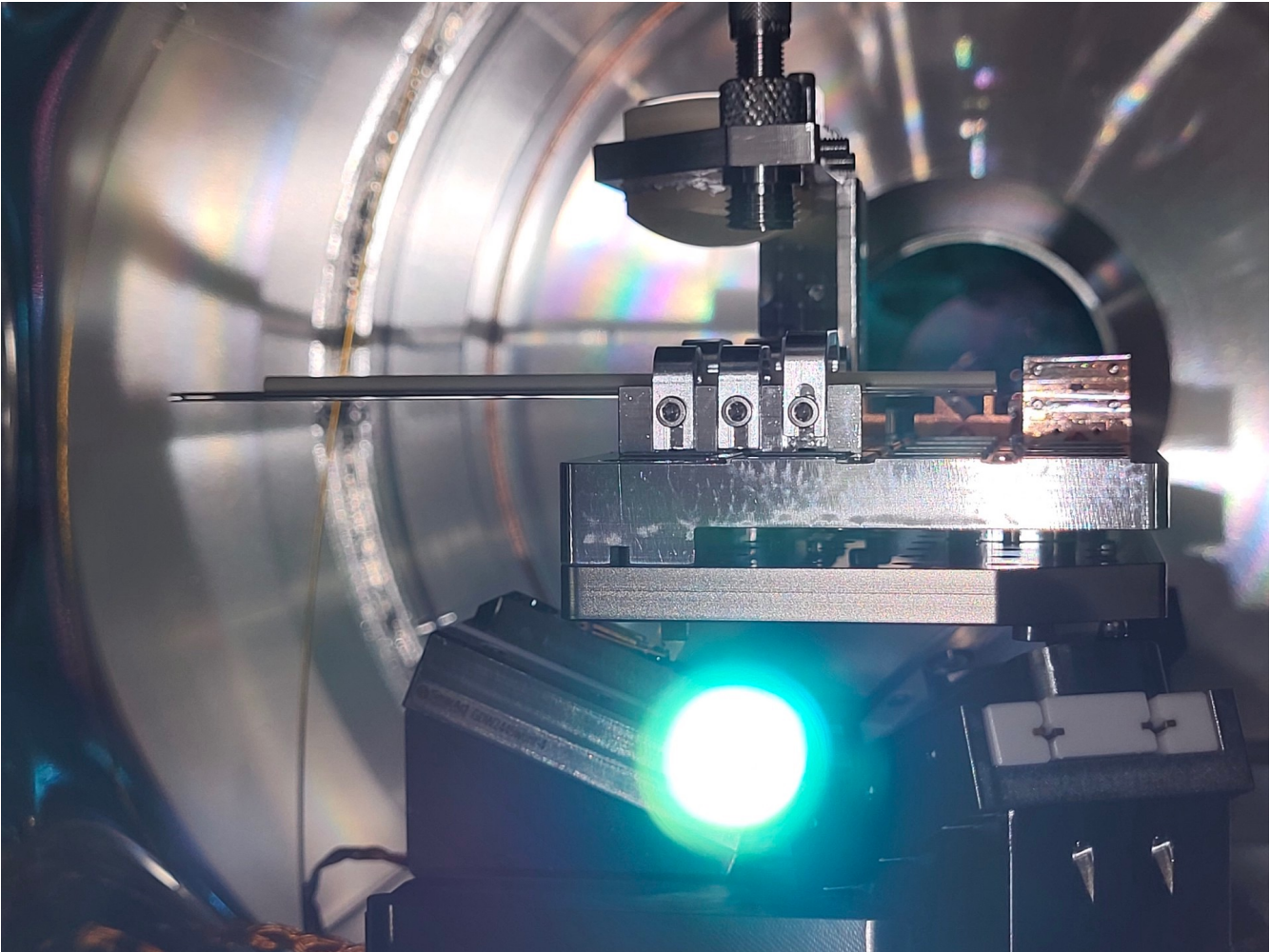
# Summary of week 07

	Mon. 12 <sup>th</sup> Feb	Tue. 13 <sup>th</sup> Feb	Wed. 14 <sup>th</sup> Feb	Thu. 15 <sup>th</sup> Feb	Fri. 16 <sup>th</sup> Feb
Achievements	<ul style="list-style-type: none"> <li>MVS: installation of new Baseplate assembly</li> <li>MKK3: preparations for ventilation system (removal of yellow fence)</li> <li>MEA2: laser interlock panel checked</li> <li>MKK2: replacement of water valves/filters at RF stations</li> </ul>	<ul style="list-style-type: none"> <li>MVS: de-assembly of clean room tent</li> <li>MEA: EA laser table put back in place</li> <li>Hexapod movements thoroughly tested</li> <li>Re-cabling of EA chamber diagnostic</li> </ul>	<ul style="list-style-type: none"> <li>MVS: Conditioning of leakage pump on EA chamber</li> </ul>	<ul style="list-style-type: none"> <li>UV photocathode laser alignment on Beam pointing stabilizer</li> </ul>	<ul style="list-style-type: none"> <li>UV laser on beam pointing stabilizer established</li> <li>Beam-based Laser-on-cathode alignment improved</li> <li>Gun phase stability over night</li> </ul>
Difficulties	<ul style="list-style-type: none"> <li>Glass capillary broke during installation → replaced, but fragments remain in chamber</li> </ul>	<ul style="list-style-type: none"> <li>EA LED periodically lights up, unintended</li> </ul>			<ul style="list-style-type: none"> <li>11:15 water flow too low for TWS1 RF station</li> <li>12:50 DIO1 does not switch on</li> <li>Temp and Humidity Servers off partially</li> </ul>
Notes	<ul style="list-style-type: none"> <li>MCS: Windows updates on BKR machines</li> </ul>		<ul style="list-style-type: none"> <li>Visit by Beate Heinemann</li> <li>Reference Phase Tracking for Gun enabled</li> </ul>		

# New Baseplate Installed



# New Pre-defined Hexapod Positions



ea1\_hexapod\_user\_panel.xml

SINBAD....

SmarAct

SmarPod encoders referenced:

Reference

Telnet connection status:

Current Position (mm)

x: -35.25

y: -1.9999998

z: 7.446544E-7

Dest. Position (mm)

x: -35.250000

y: -2.000000

z: 0.000000

Current Angle (deg)

x: 3.4922596E-7

y: 4.1072906E-7

z: -2.5764706E-7

Dest. Angle (deg)

x: 0.000000

y: 0.000000

z: 0.000000

Move

STOP

Position Increment (mm):

0.00000000

Angle Increment (deg):

0.00000000

New

Old

Move t...

YAG

V-Edge

Ag Mirror

DLA

Set y to:

Zero

0.5 AC

1.0 AC

Movement status:

Holding

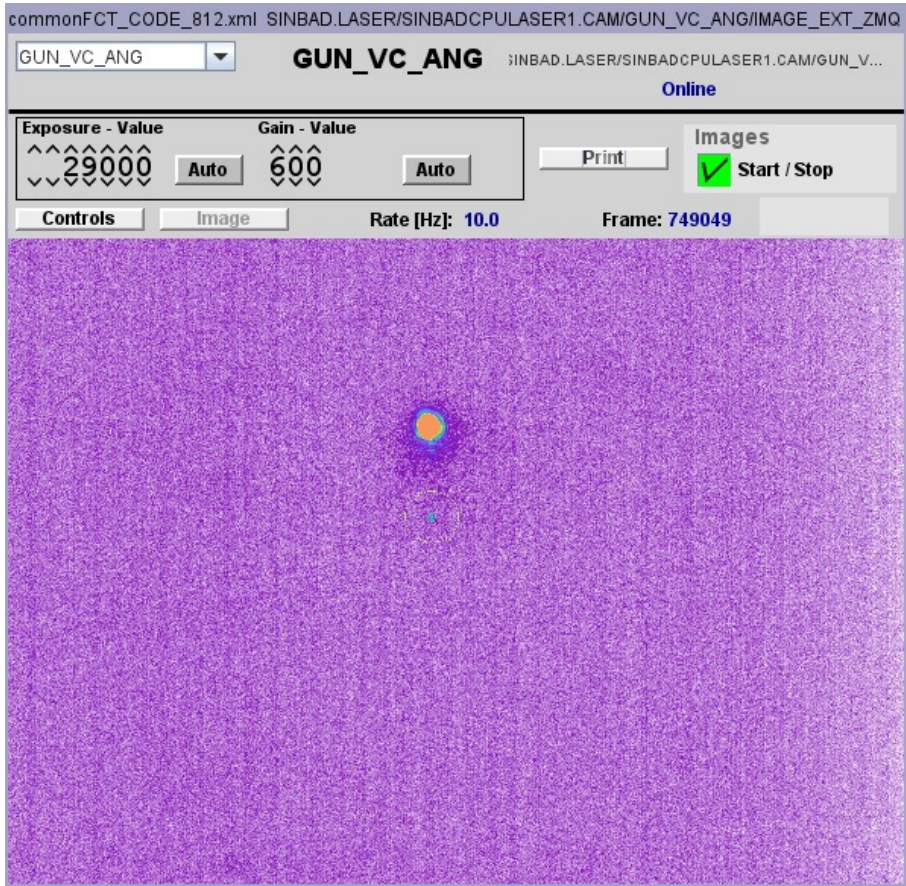
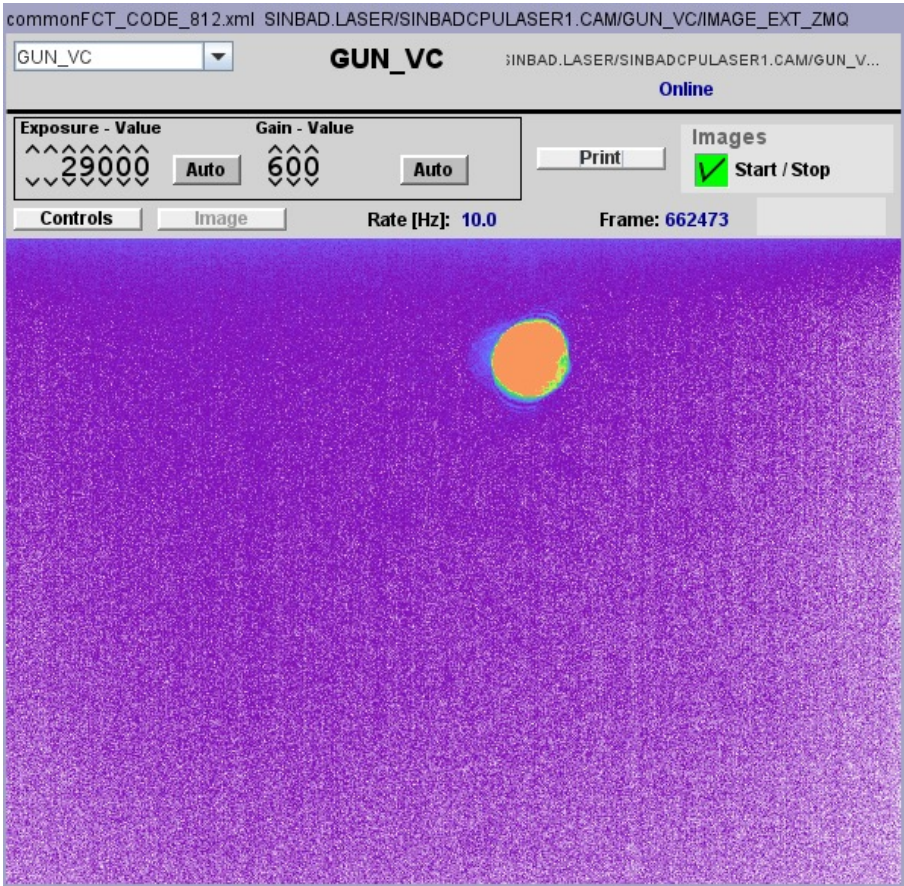
Expert

Parking: P1

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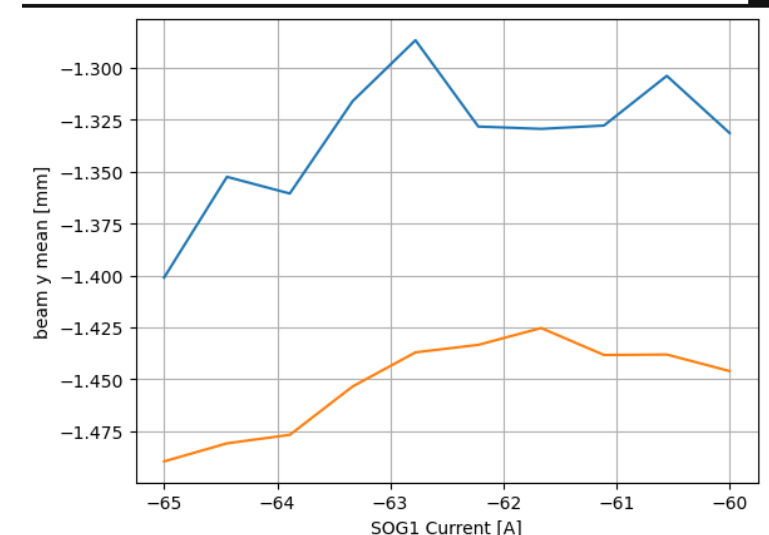
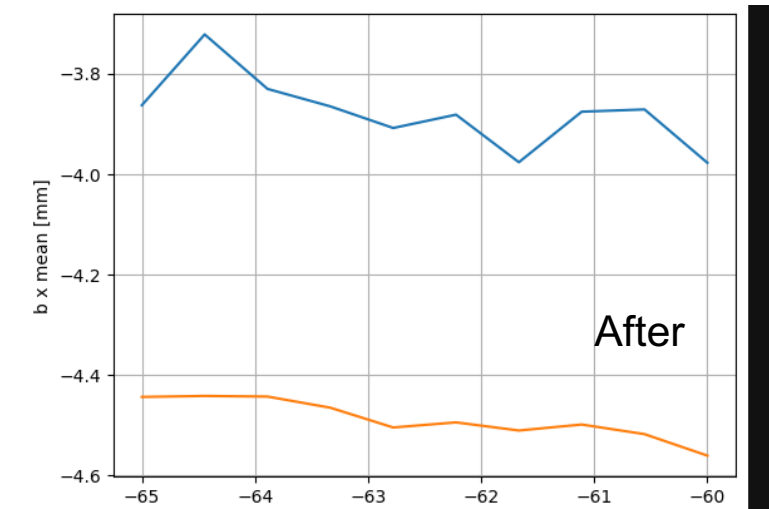
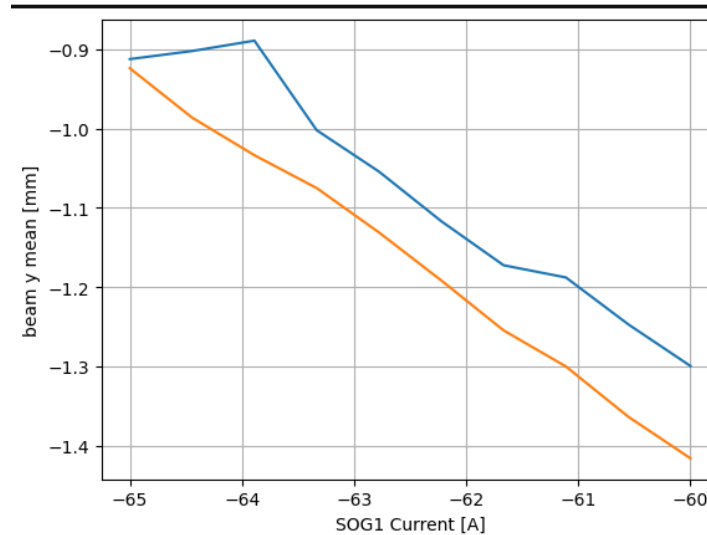
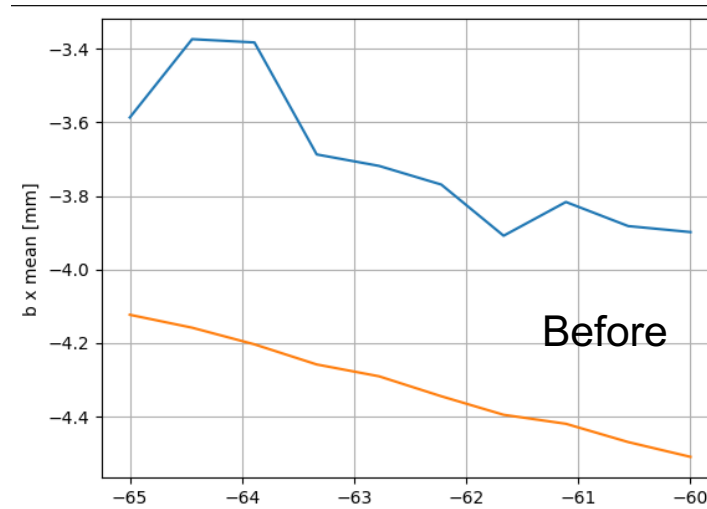
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# UV beam on virtual cathode cam



# Beam based alignment of UV cathode laser

- Adjusting BPS picomotors
- On LI.R1



# Schedule and Plan for the Week

## Week 08

Date	Shift Crew
19.02.	Max, Frank
20.02.	Thomas, Max (morning)
21.02.	Thomas, Max
22.02.	Thomas, Hannes
23.02.	Thomas, Max

- Mon: Petra IV
- Tue – Fri, KW 09: TWAC

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