Maintenance

XG Control (radioactivity icon)

Control: 45 kV and 66 mA (20 kV and 10 mA in idle status)

Raise the voltage first.

Lower the intensity first.

- 66 → 60; steps of 10 (15-20 s for each step)
- 45 → 40; steps of 10 (idem)

(It takes a couple of minutes in total)

Scripts: Aging/Start script to restart Short takes 31 min. After that you should wait 1-2h for a stable beam

No need to shut down if it's for less than a week

To shut down, first go to idle status (20 kV, 10 mA), then X-rays OFF, and stop vacuum after Check if Chiller/Target are also off after in the Main

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For RESTART

- CHILLER
- PUMP(VACUUM)
- X-RAYS

[7.6E-5 (Pa) Vacuum level] [140 Bias] electronic force applied on the beam Don't change the filament current FC 6.6 V Change the bias for each new filament to reach the FC of 6.6 V

When it has just restarted: Stay in idle (20 kV, 10 mA) overnight if it was down for several weeks; only 1-2h if it was down a few hours.

Water flow and Temperature FLOW/TARGET 9.6 FLOW2TUBE 4.3-4.2

CRYOSTREAM

Let if warm up first PROGRAM/ turn black knob: “Add Phase: End” ENTER twice / HOLD (green light come OFF)

2h to cool up 1h-30 min to cool down

BEAM

Point detector every week Check beam intensity Slide on the collimator and tighten

SCALE: 3 DIVISION: 2 ON ADJUST ZERO with dial

on XG Control: Shutter / OPEN read > 4, never above 5.0