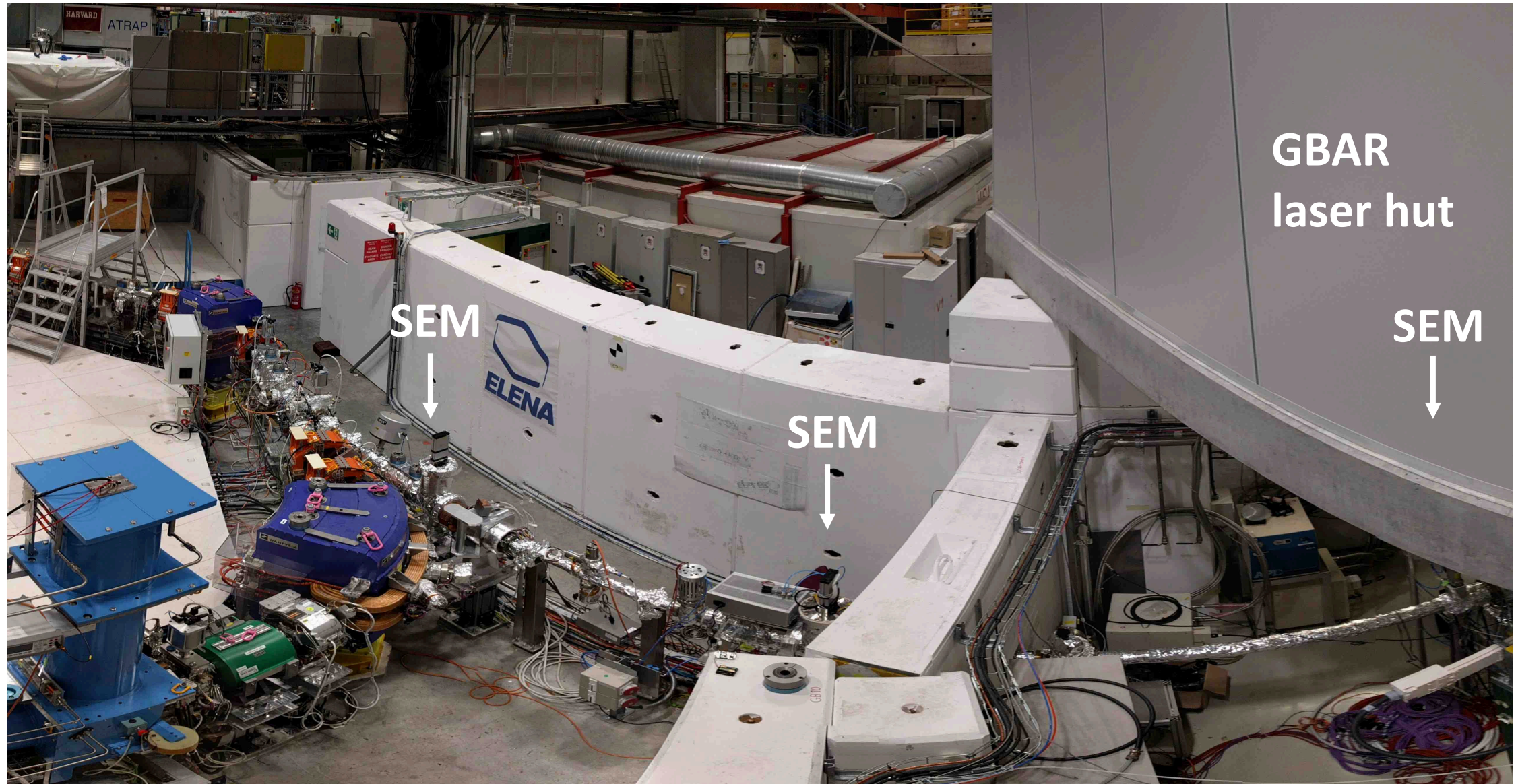
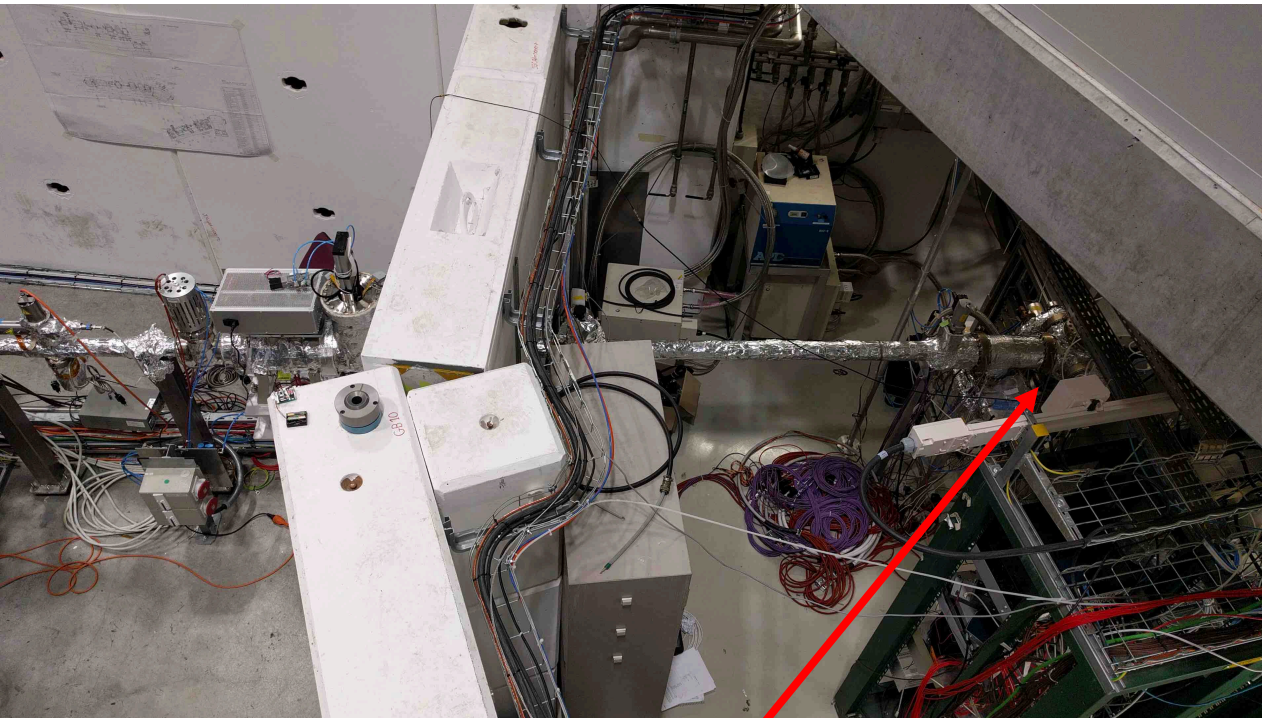


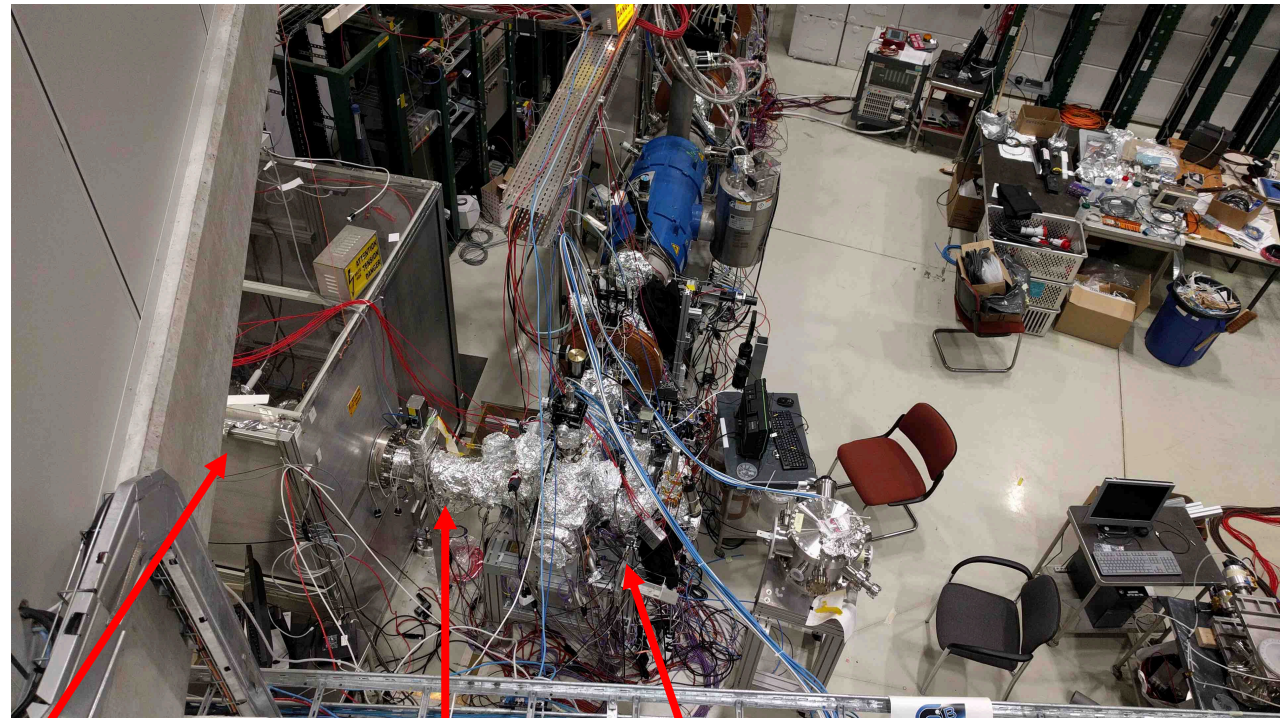
Status of GBAR decelerator

LNE 50 beam line





Electrostatic
quadrupole

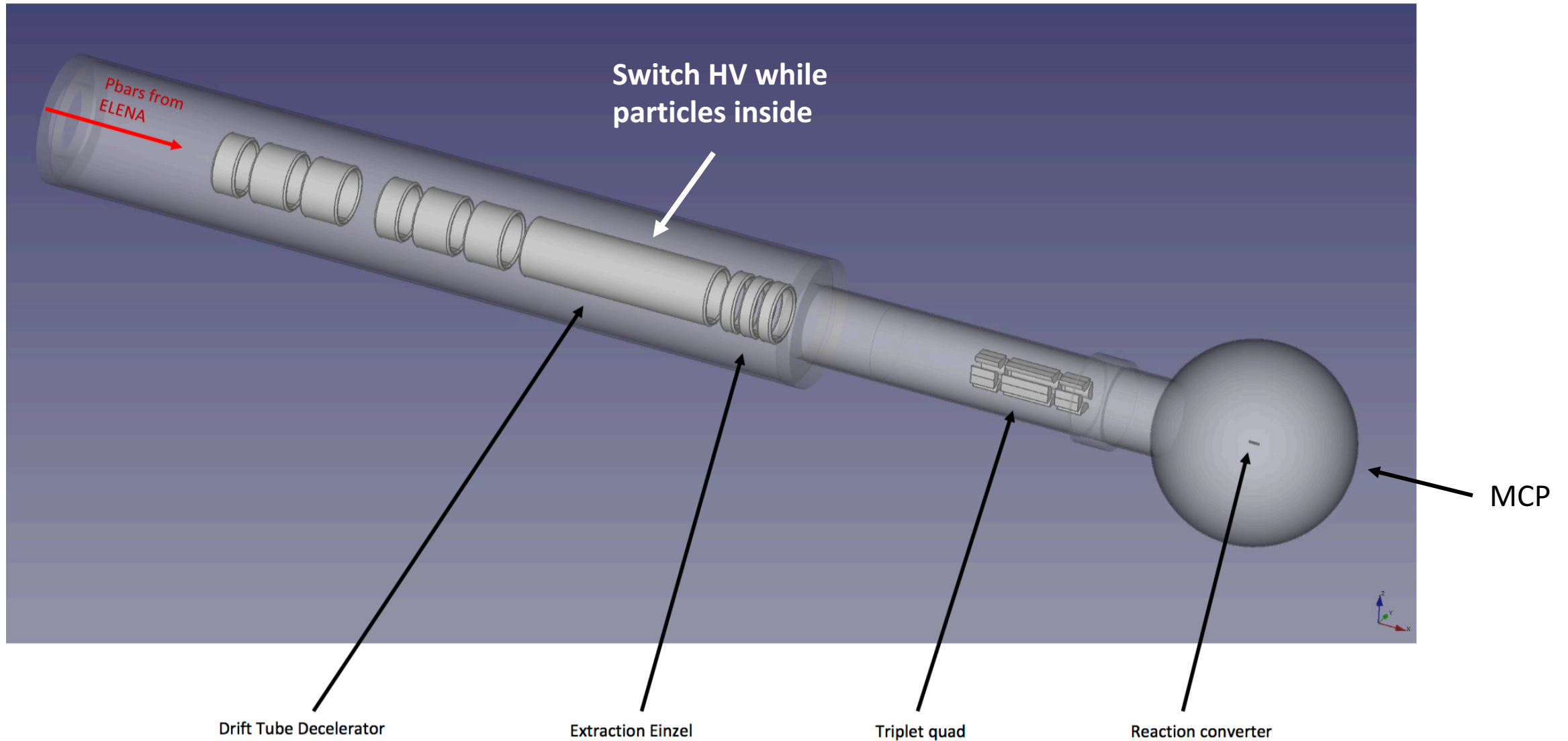


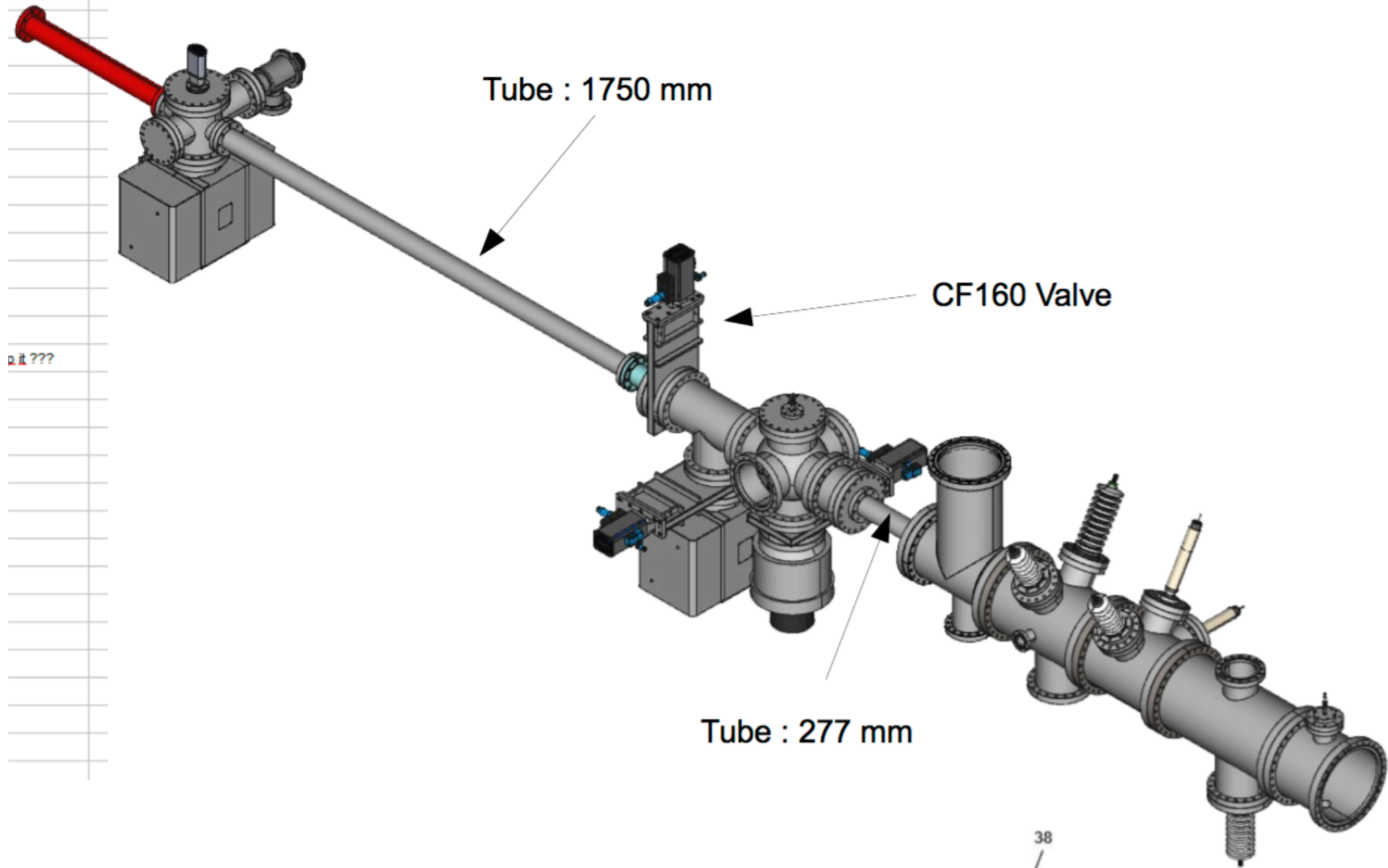
SEM inside
decelerator
cage

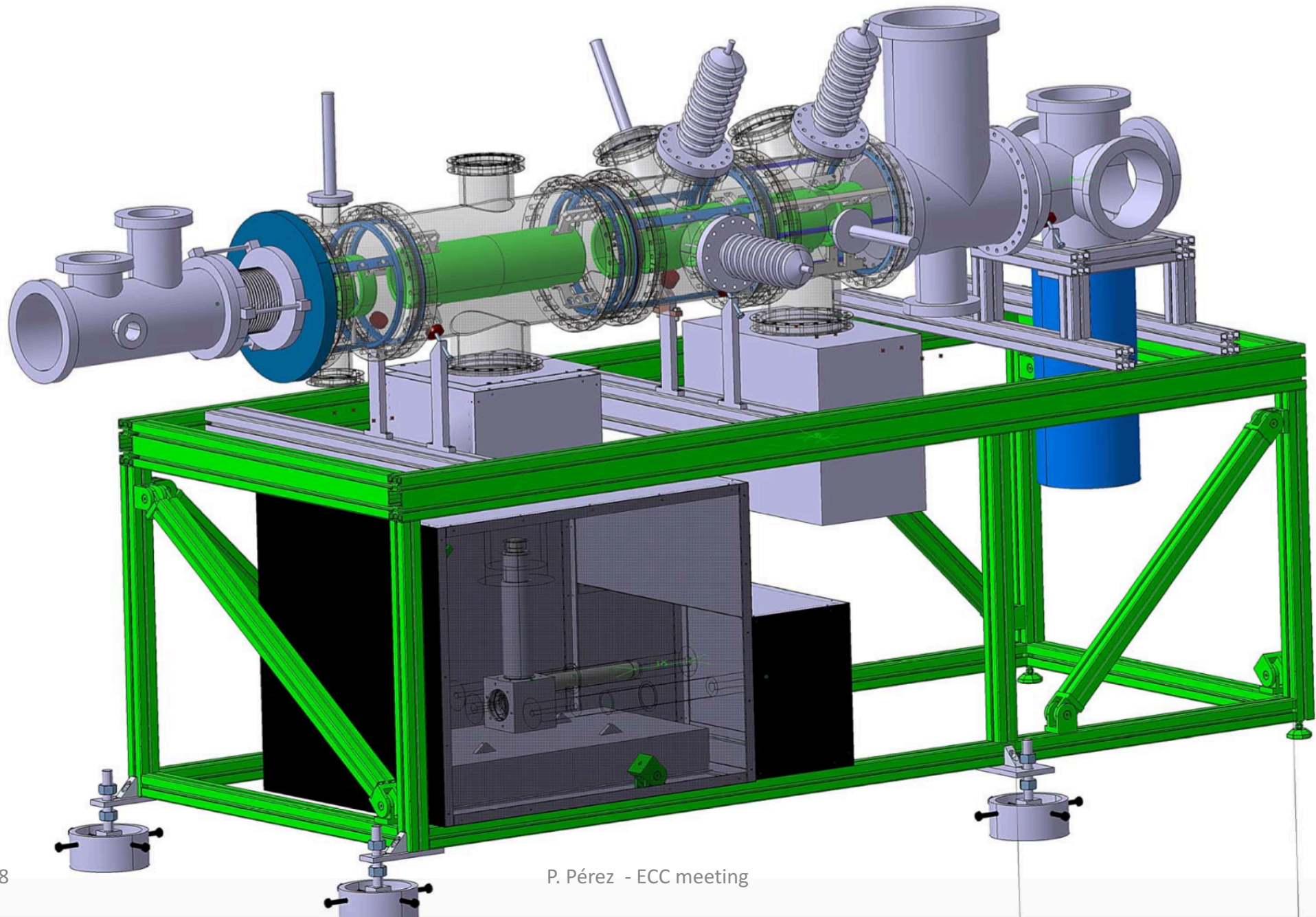
quad
triplet

MCP

Principle of drift tube

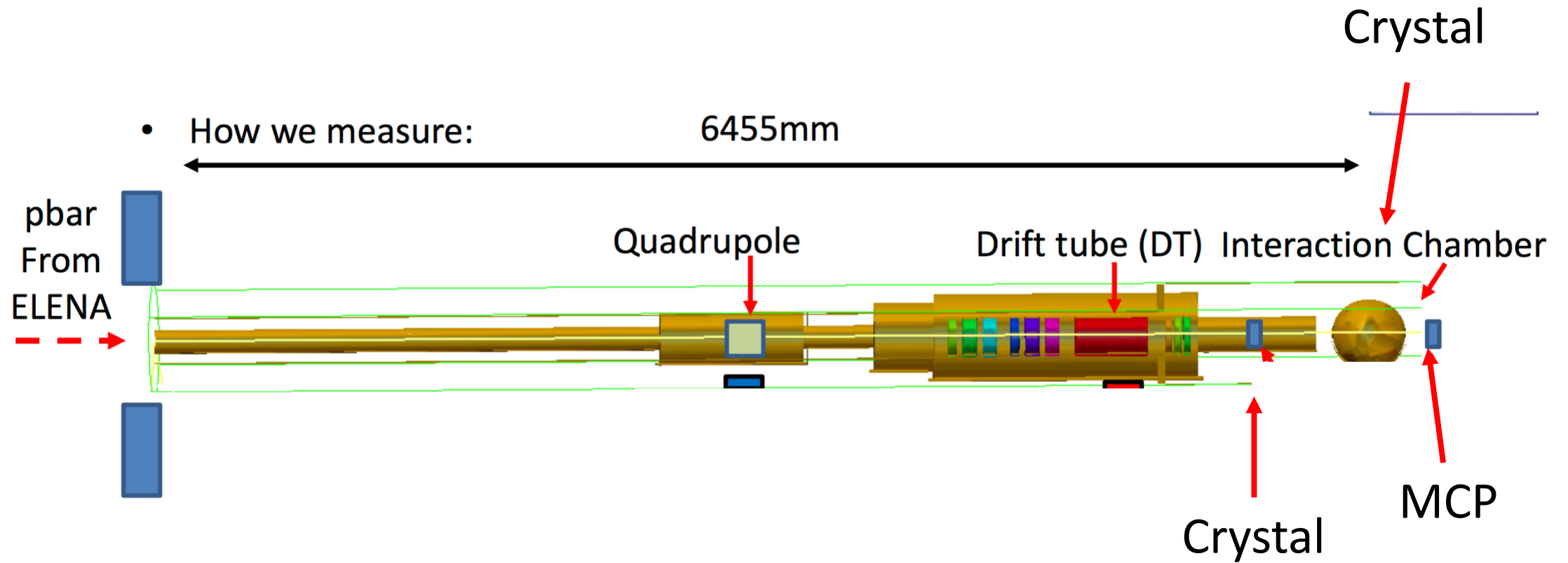






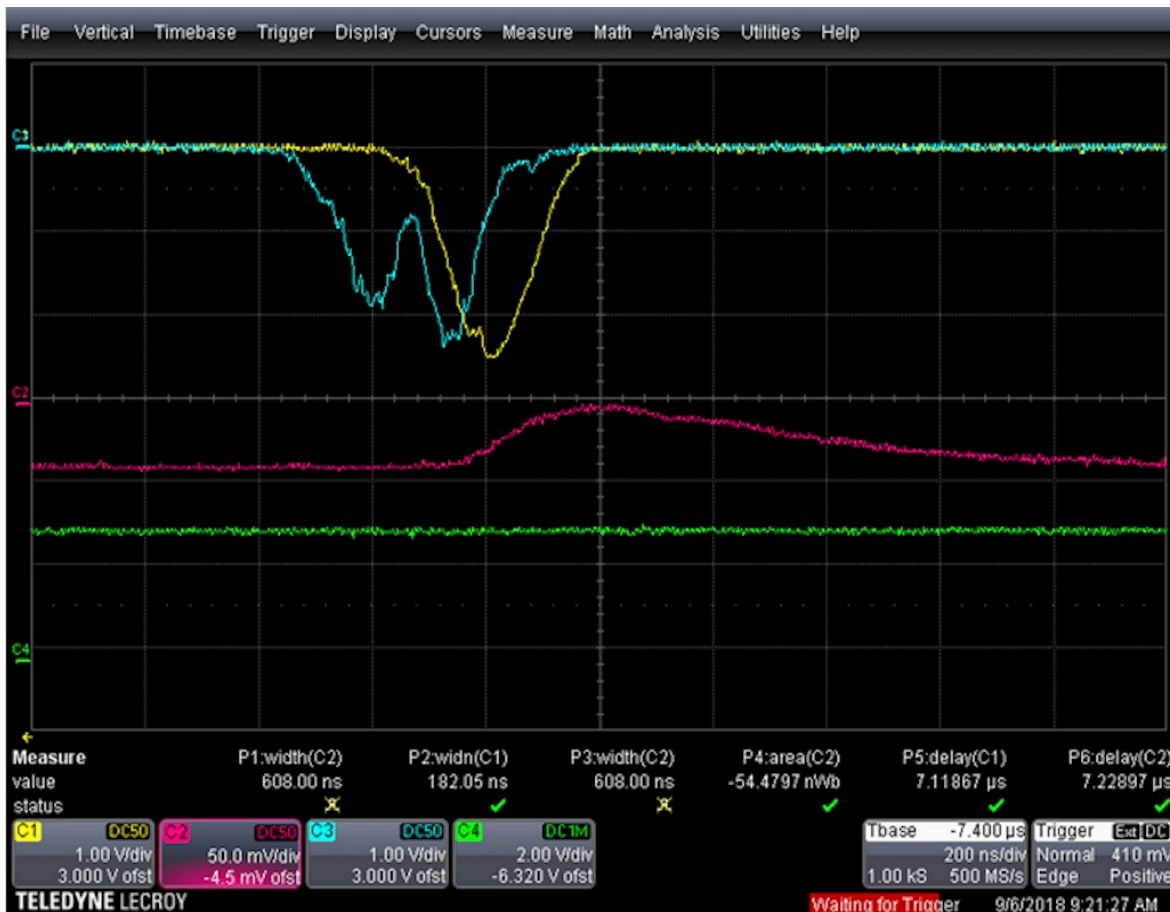
example of beam spot on MCP



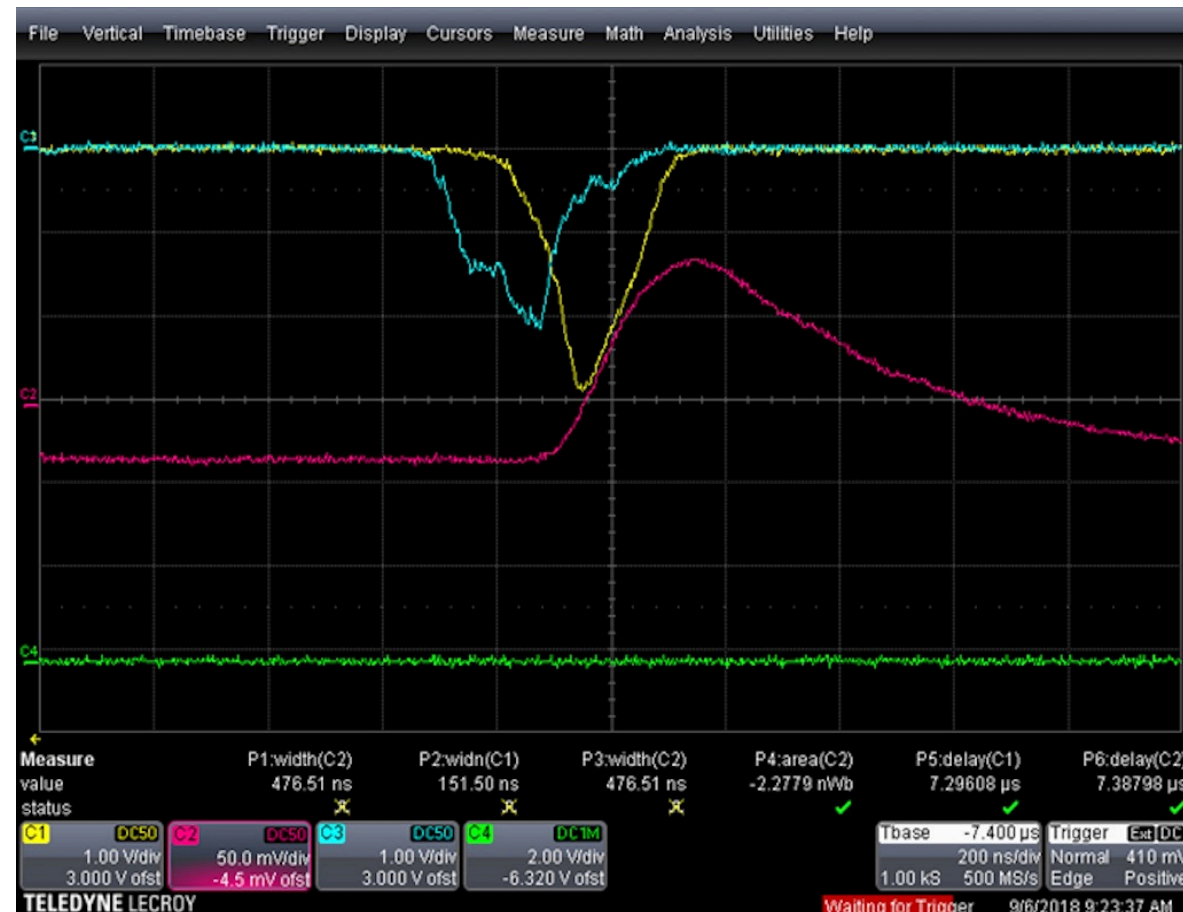


Drift tube at 85 kV

waveforms: MCP
PbWO near MCP
PbWO at quad triplet

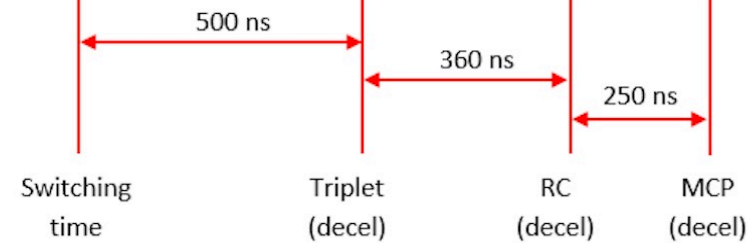
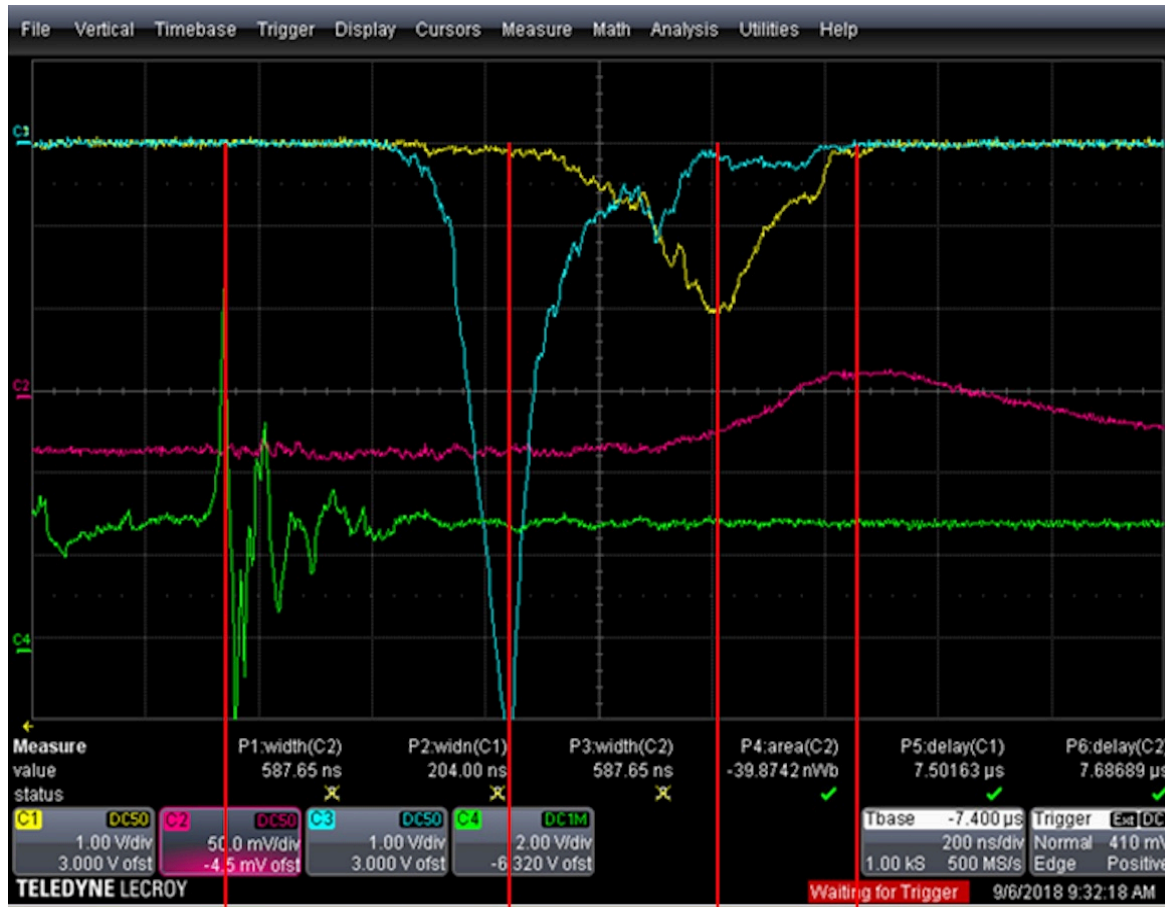


No voltage on drift tube

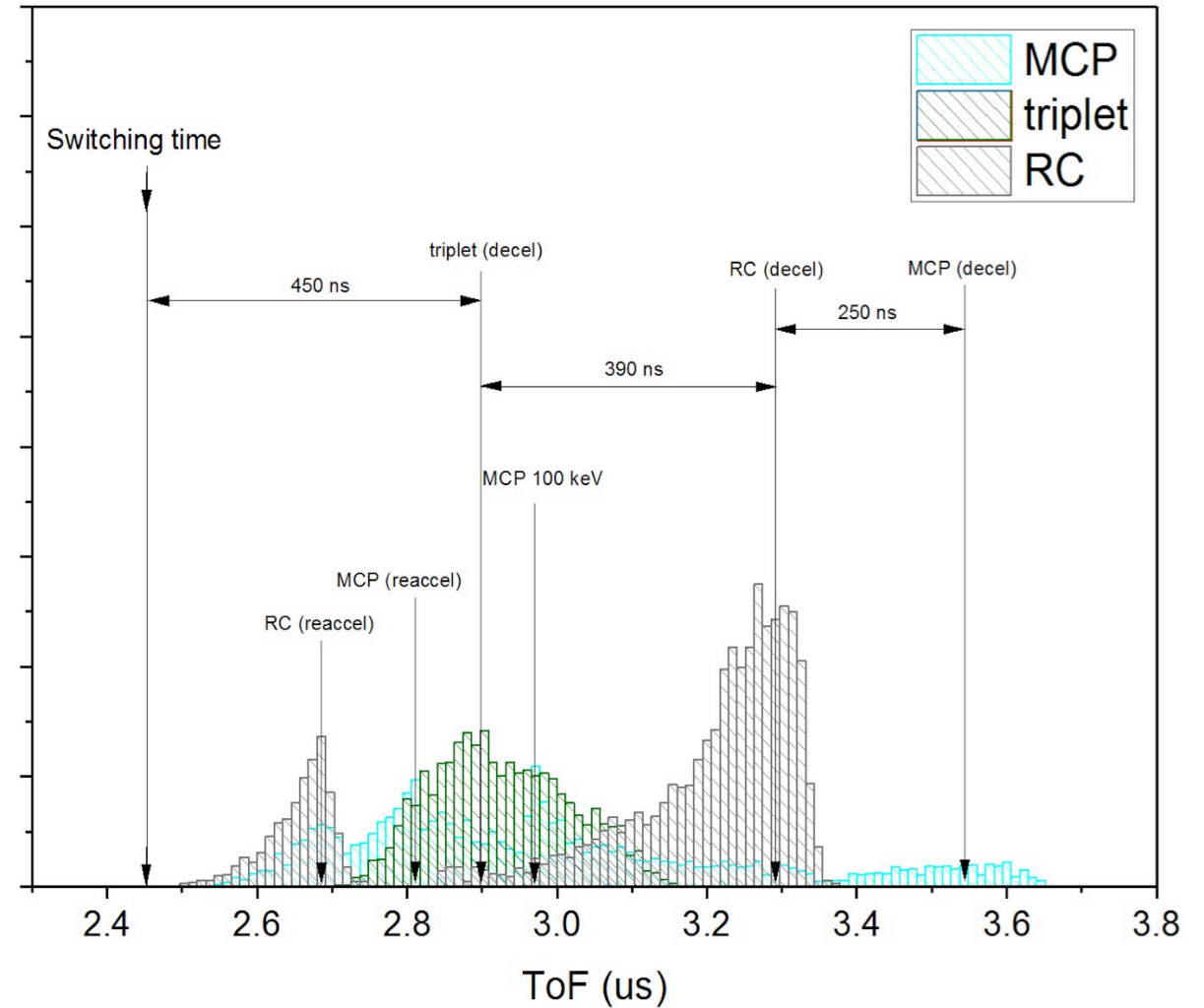


Static 85 kV

drift tube at 85 kV and switch to ground



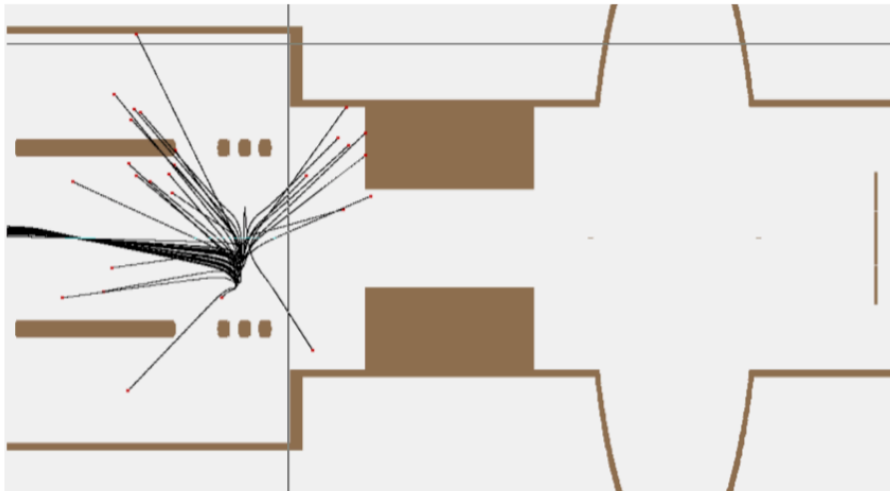
13/09/2018



simulation with beam
2.5 mm off axis

Effects of beam being off axis or angle

Einzel lens @20kV

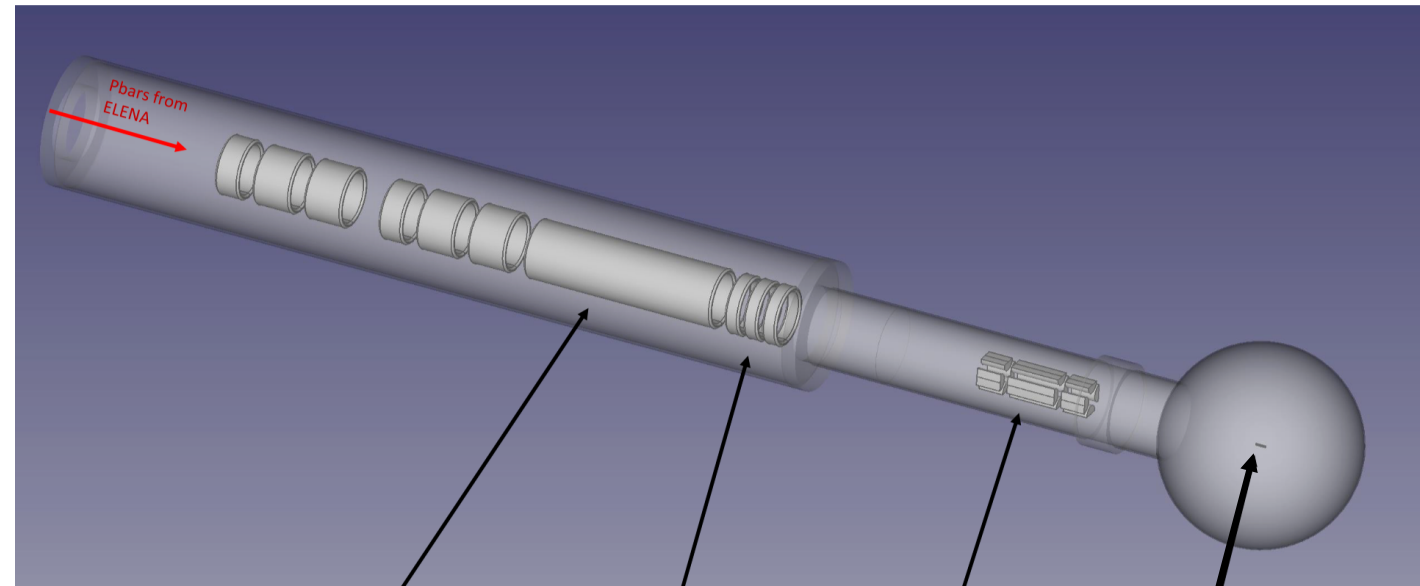


Einzel lens @10kV



Outlook (short term)

- Need to have beam on axis wrt drift tube
- conditioning to 100 kV ongoing slowly (sparks)
- goal 1 mm x 1 mm and refocus



1 mm x 1 mm x 2 cm
target