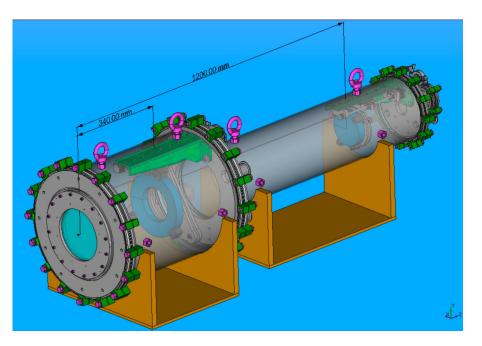
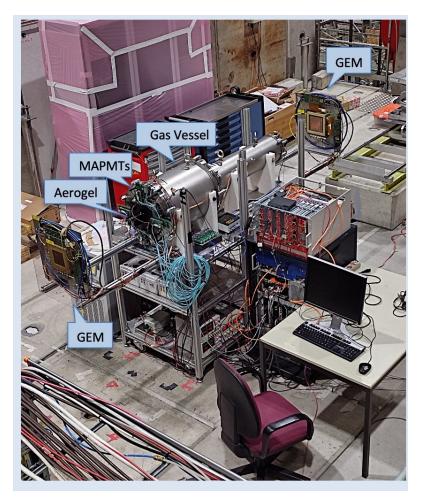
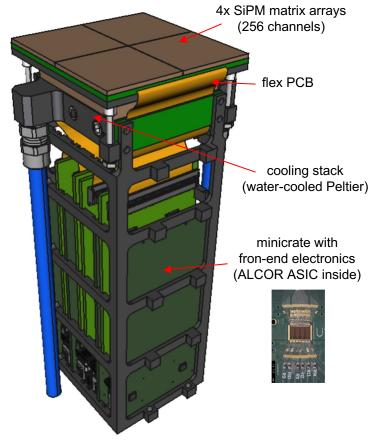
EIC dRICH Prototype

- Dual radiator (aerogel + C₂F₆)
 3-50 extended momentum range
- SiPM readout work in high (1T) magnetic field

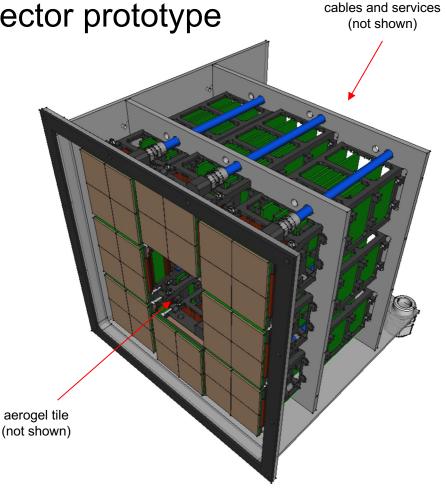




EIC ePIC-dRICH SiPM photodetector prototype



PhotoDetector Unit (PDU)

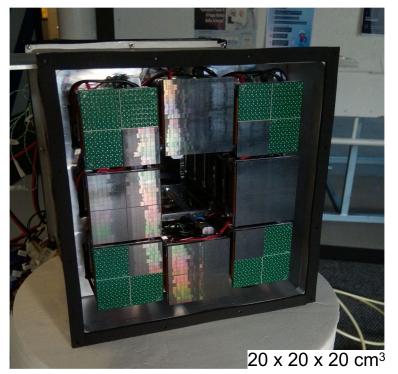


Readout Box

EIC ePIC-dRICH SiPM photodetector prototype

Readout Box (top)

Readout Box (front)







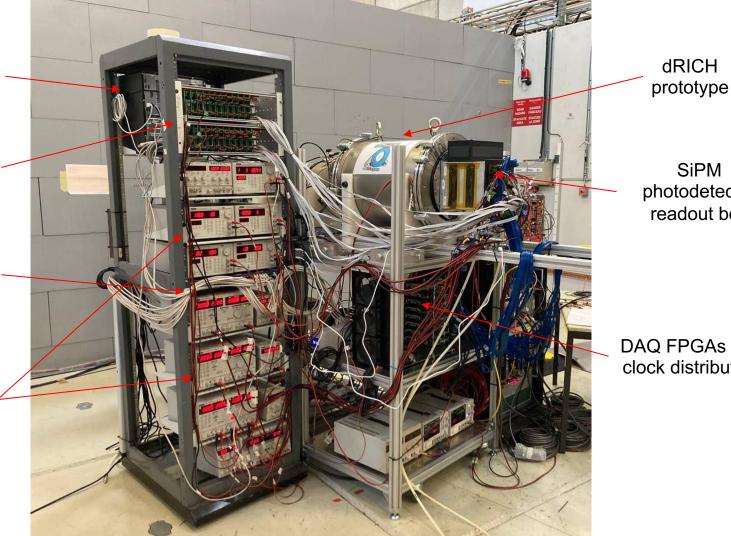
PDU

DAQ and DCS computers

auxiliary control electronics crates

gigabit ETH switch for DAQ and DCS

low voltage and high voltage power supplies



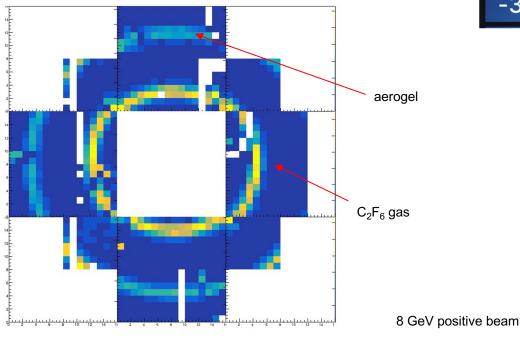
SiPM photodetector readout box

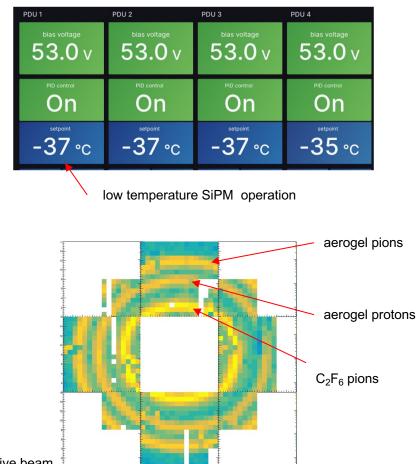
dRICH

DAQ FPGAs and clock distribution

Online monitors and QA plots:

10 GeV negative beam (dual radiator configuration)





T10 configuration:

Mixed hadron beam 3-12 GeV/c

Beam gas Cherenkov detector

Goals: Refined performance study

Photon yield

Angular resolution

Efficiency

Photon wavelength dependence

PID Beam gas Cherenkov detector