

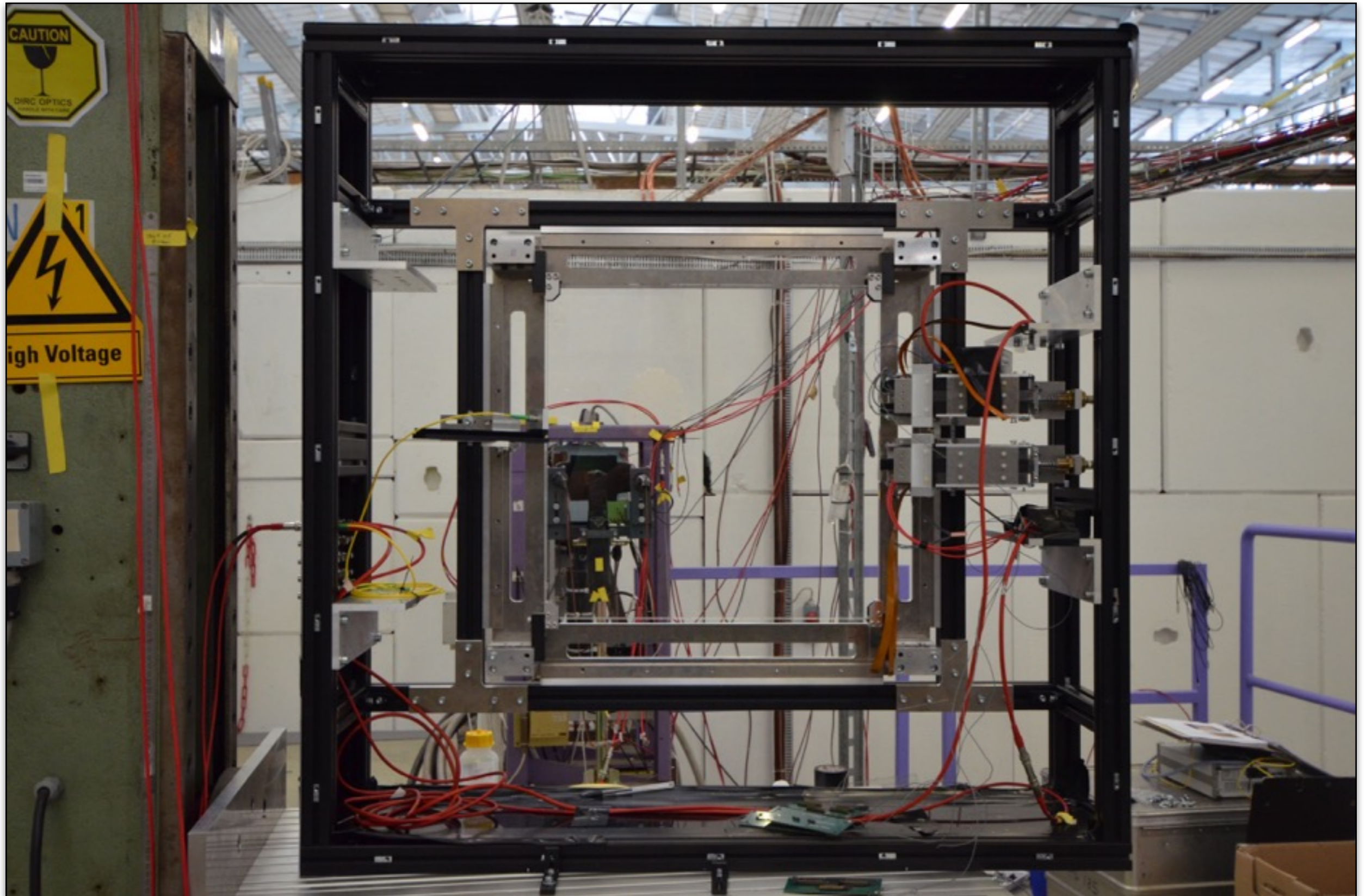


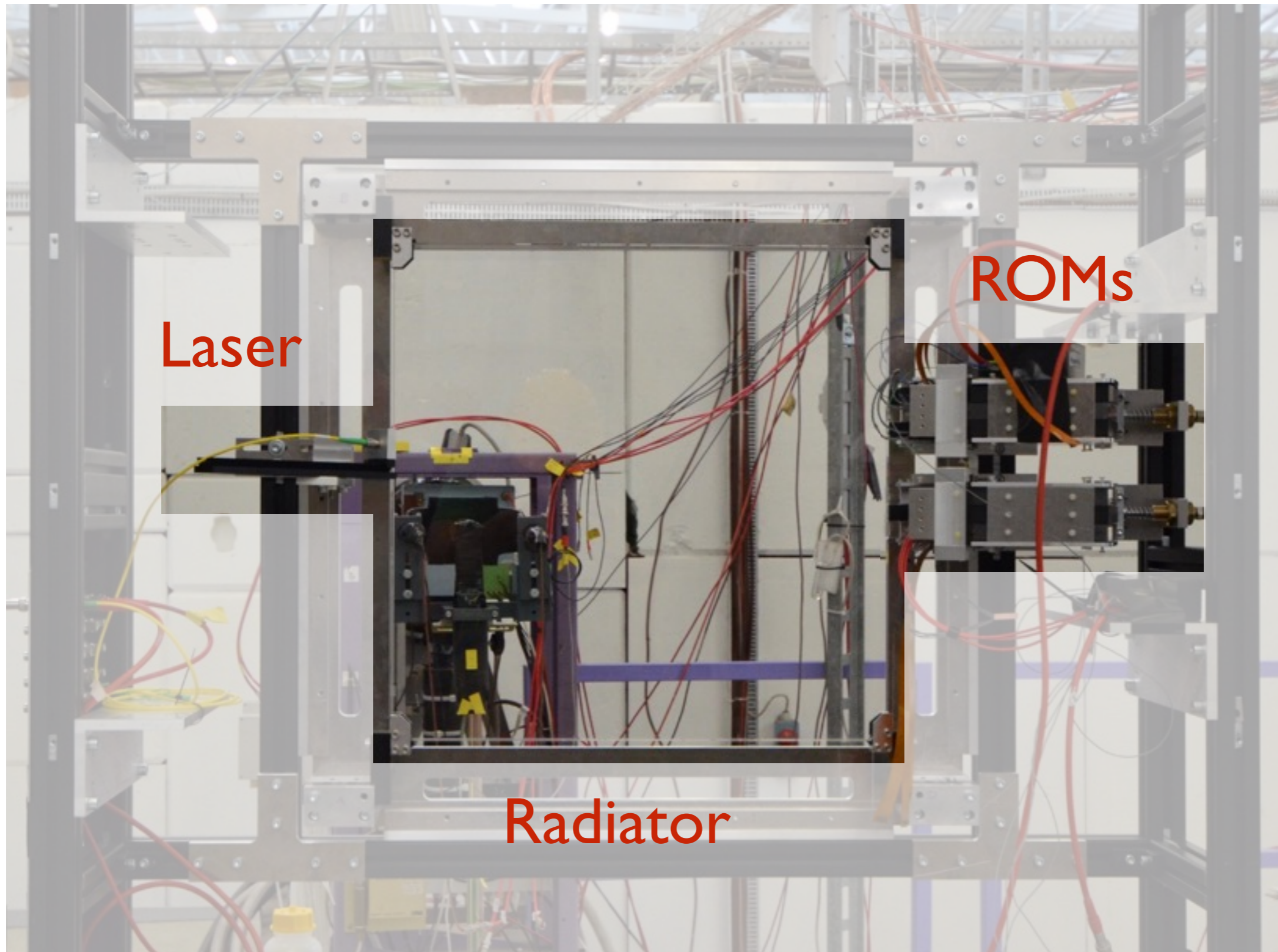
Status Endcap Disc DIRC

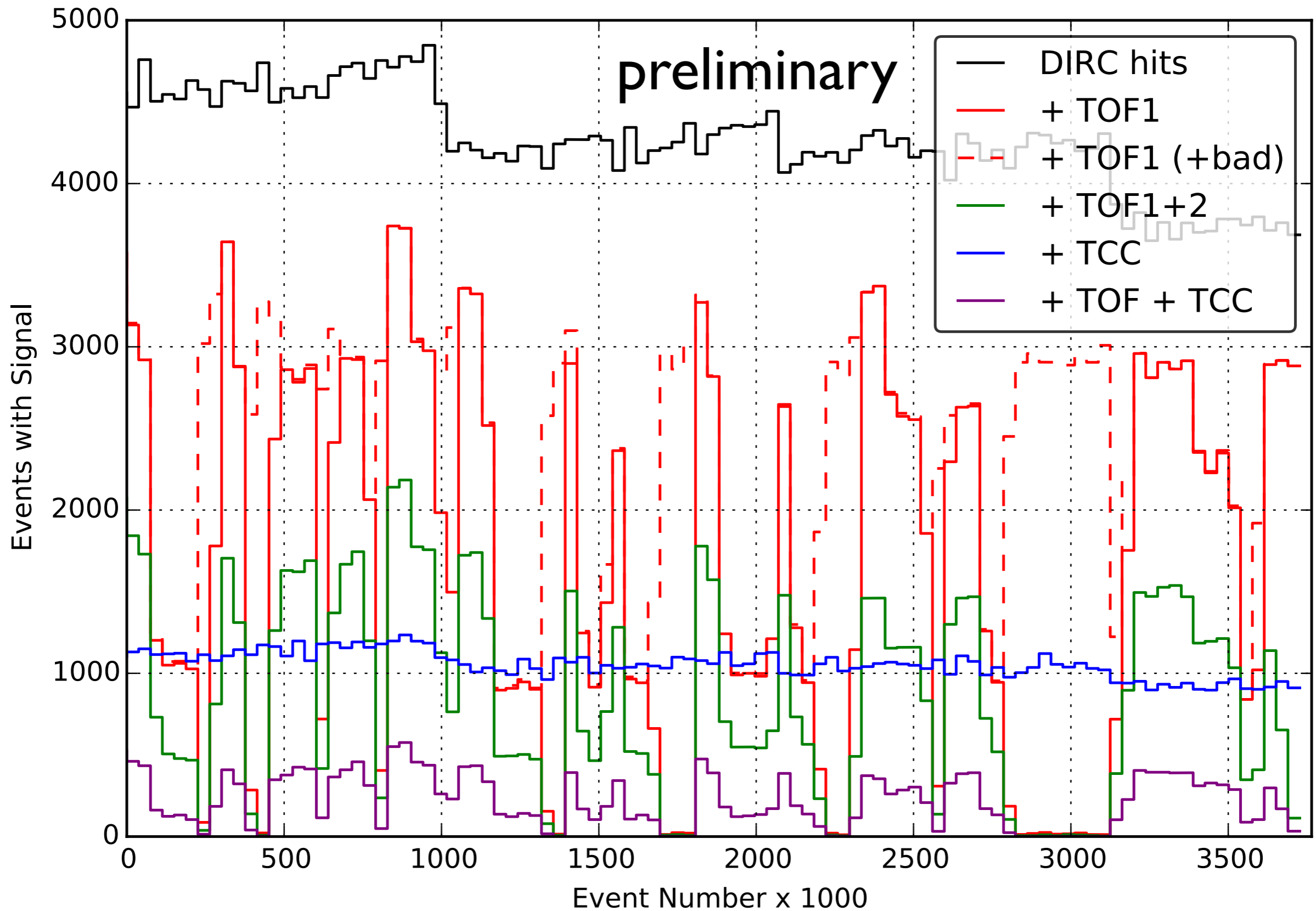
Erik Etzelmüller, Simon Bodenschatz, Michael Düren, Klaus Föhl, Avetik Hayrapetyan, Kristof Kreuzfeld, Julian Rieke, Mustafa Schmidt

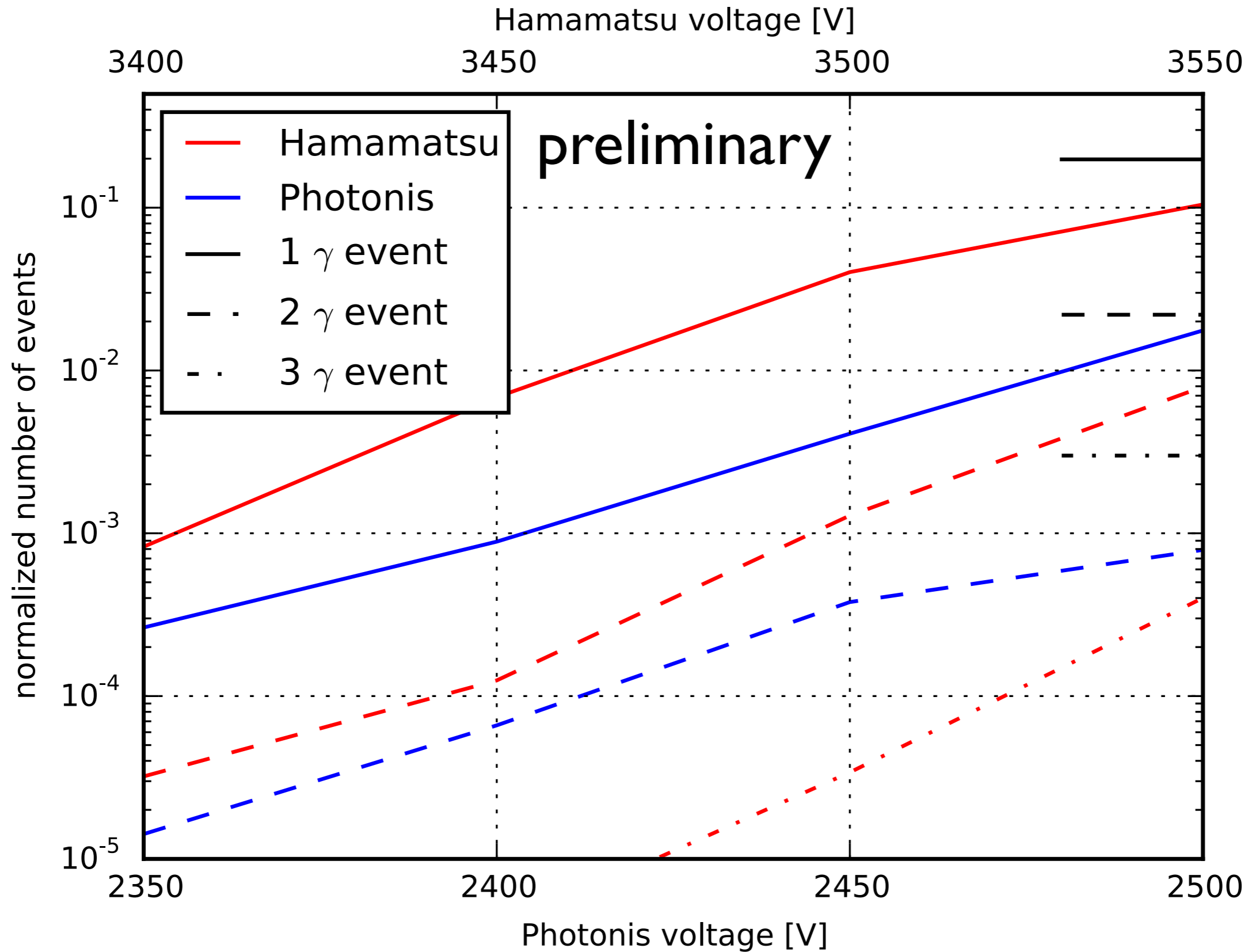
PANDA LVIII. Collaboration Meeting

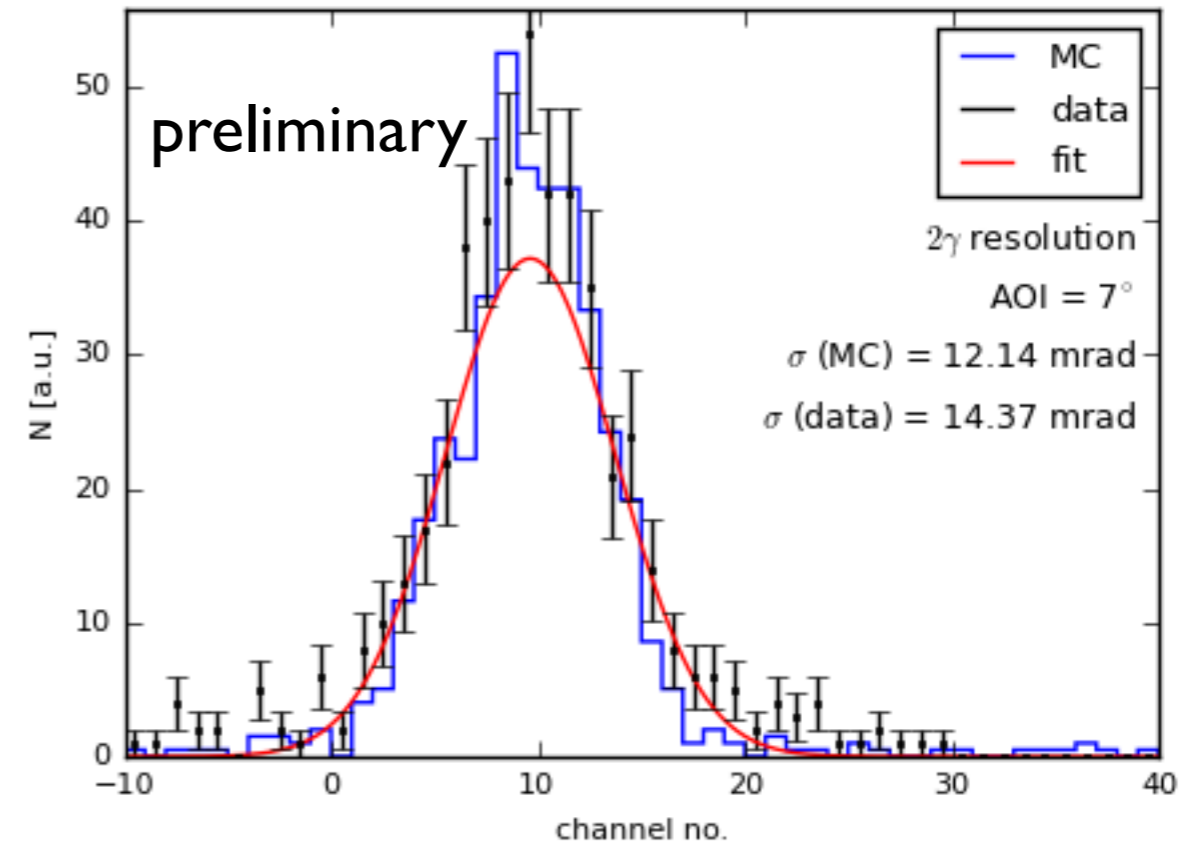
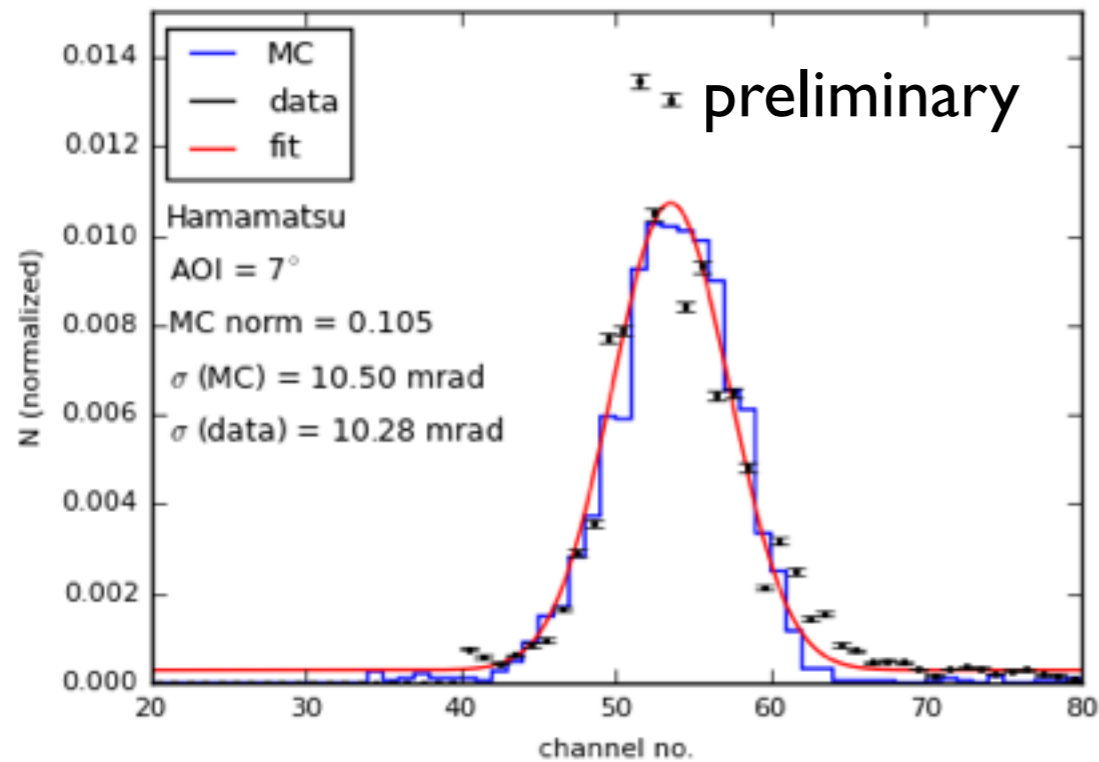
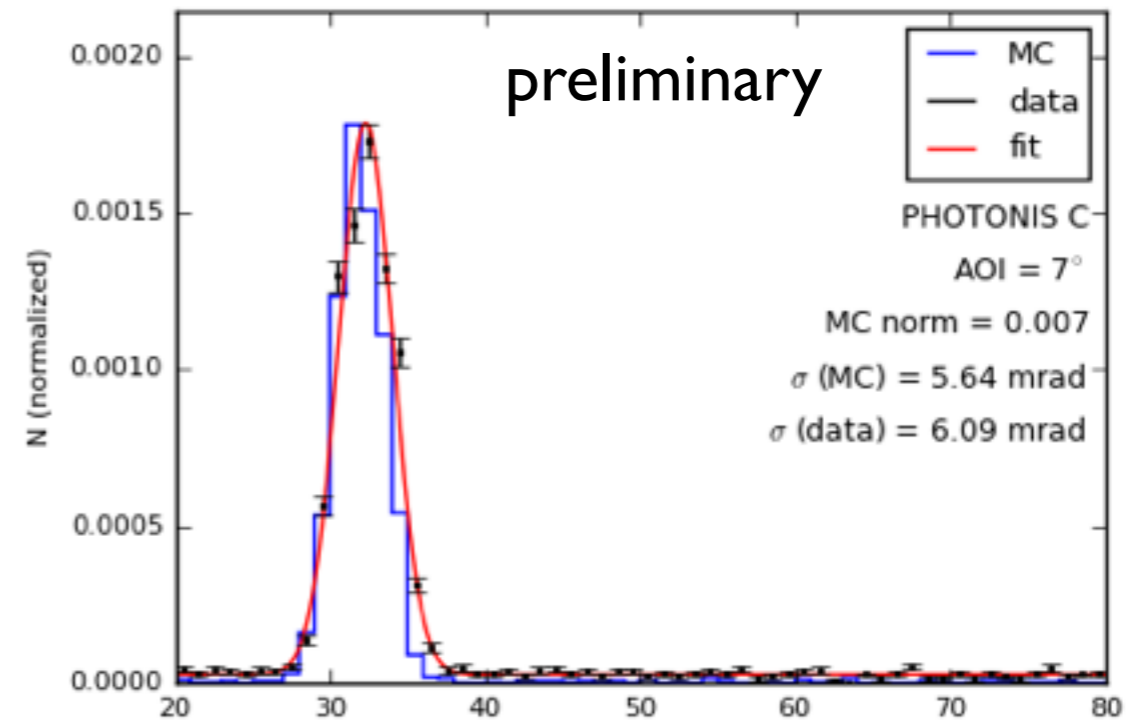
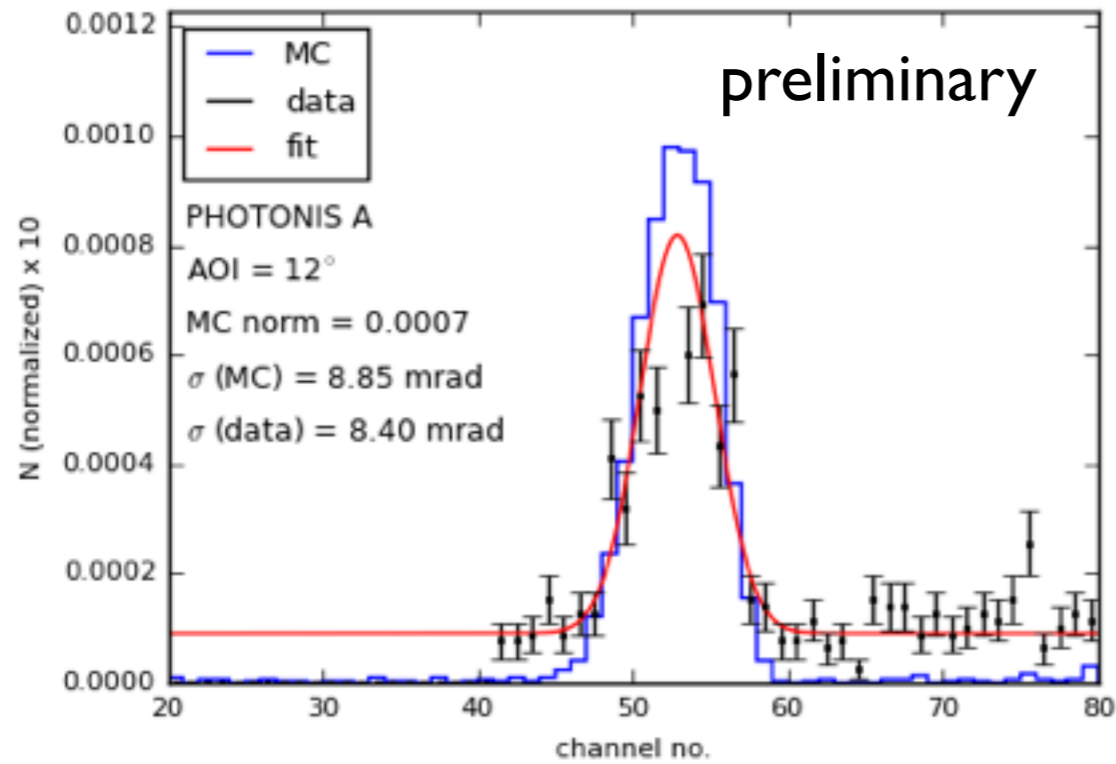
September 13th 2016



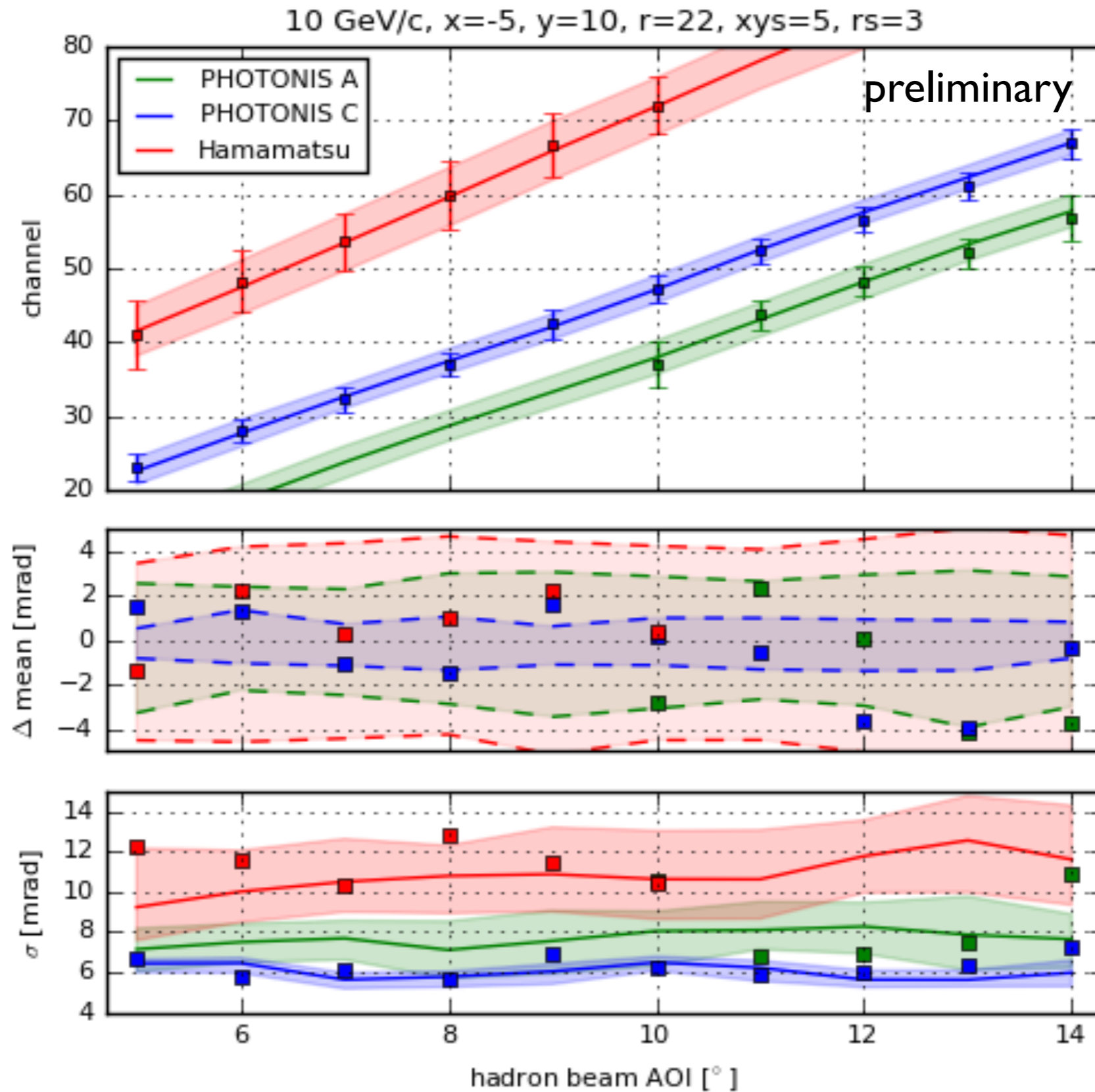


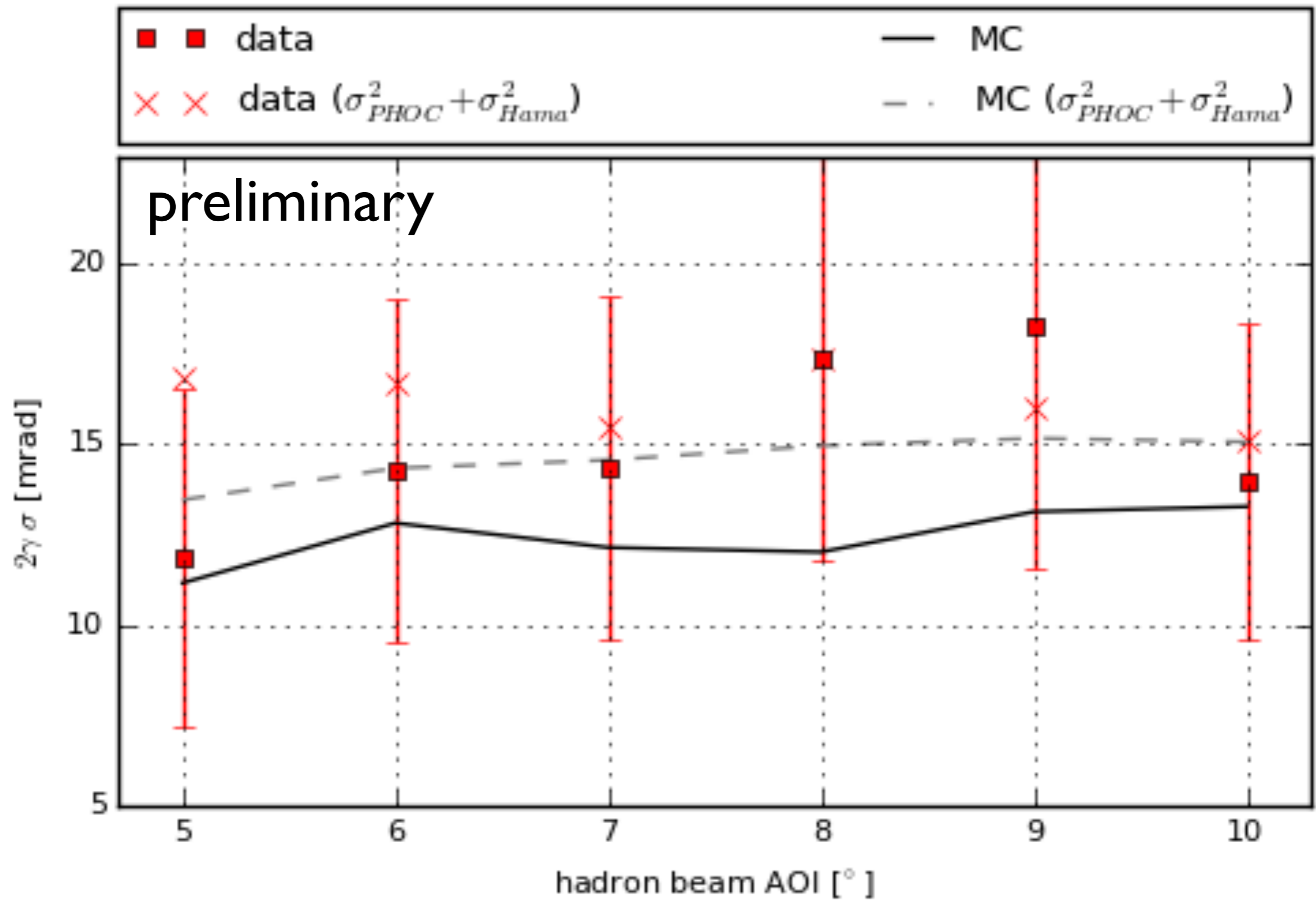


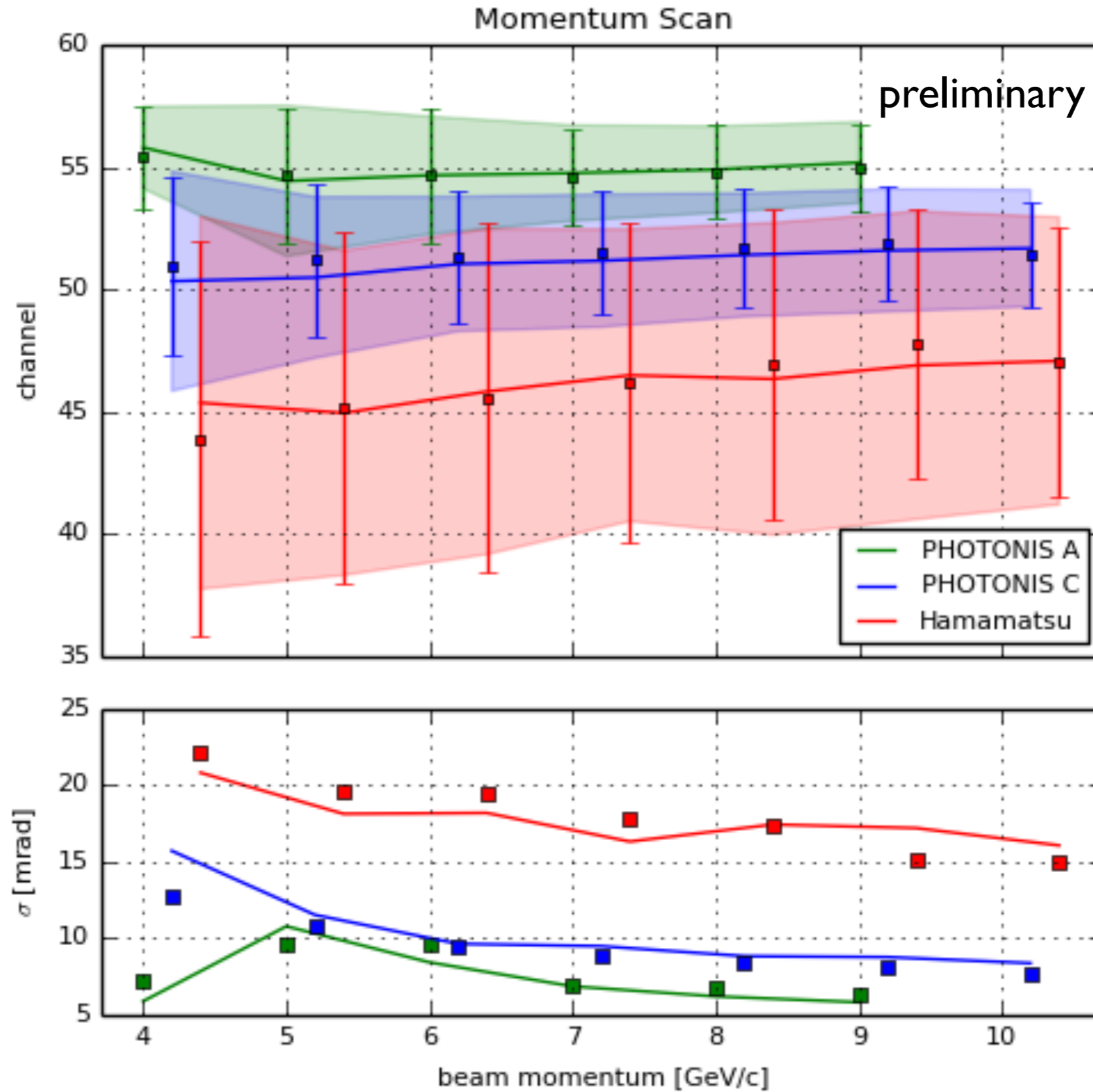


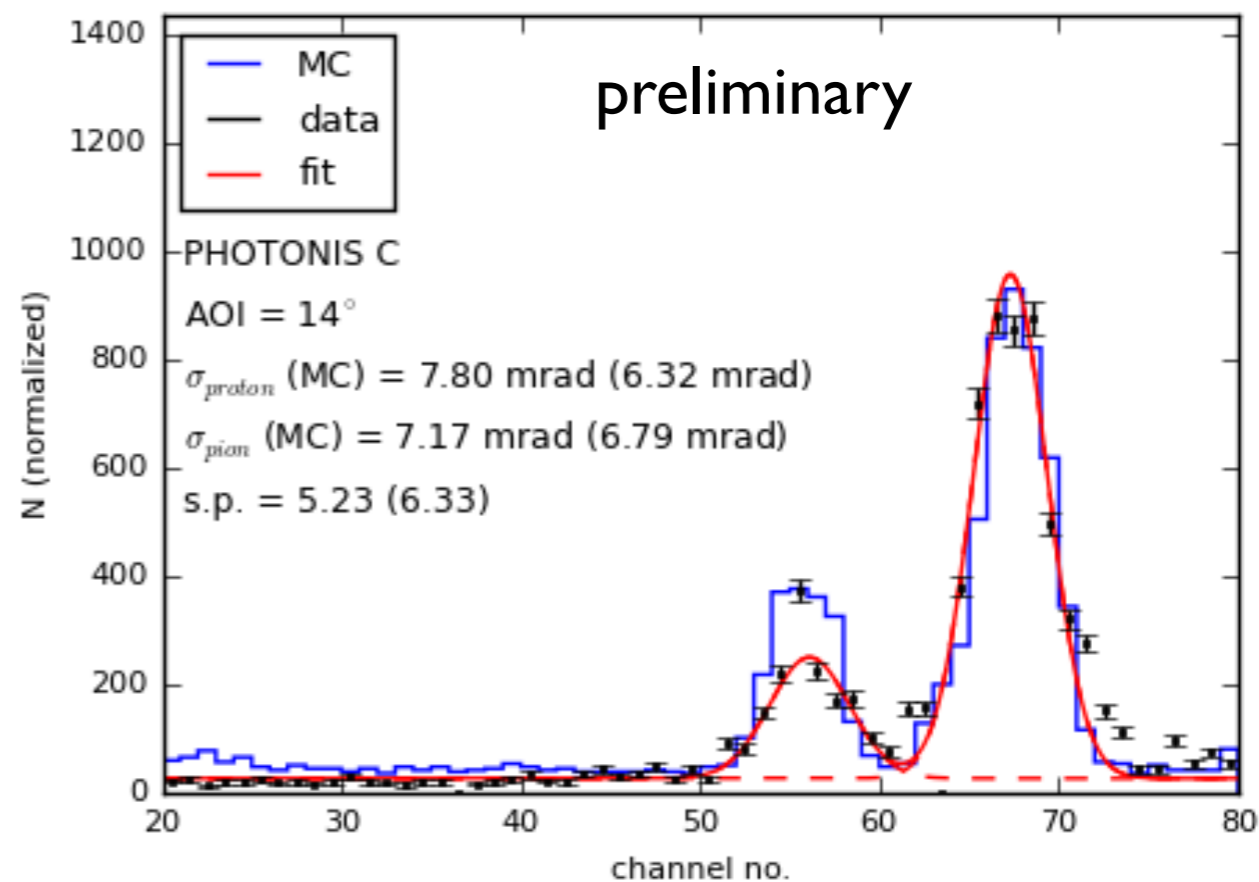
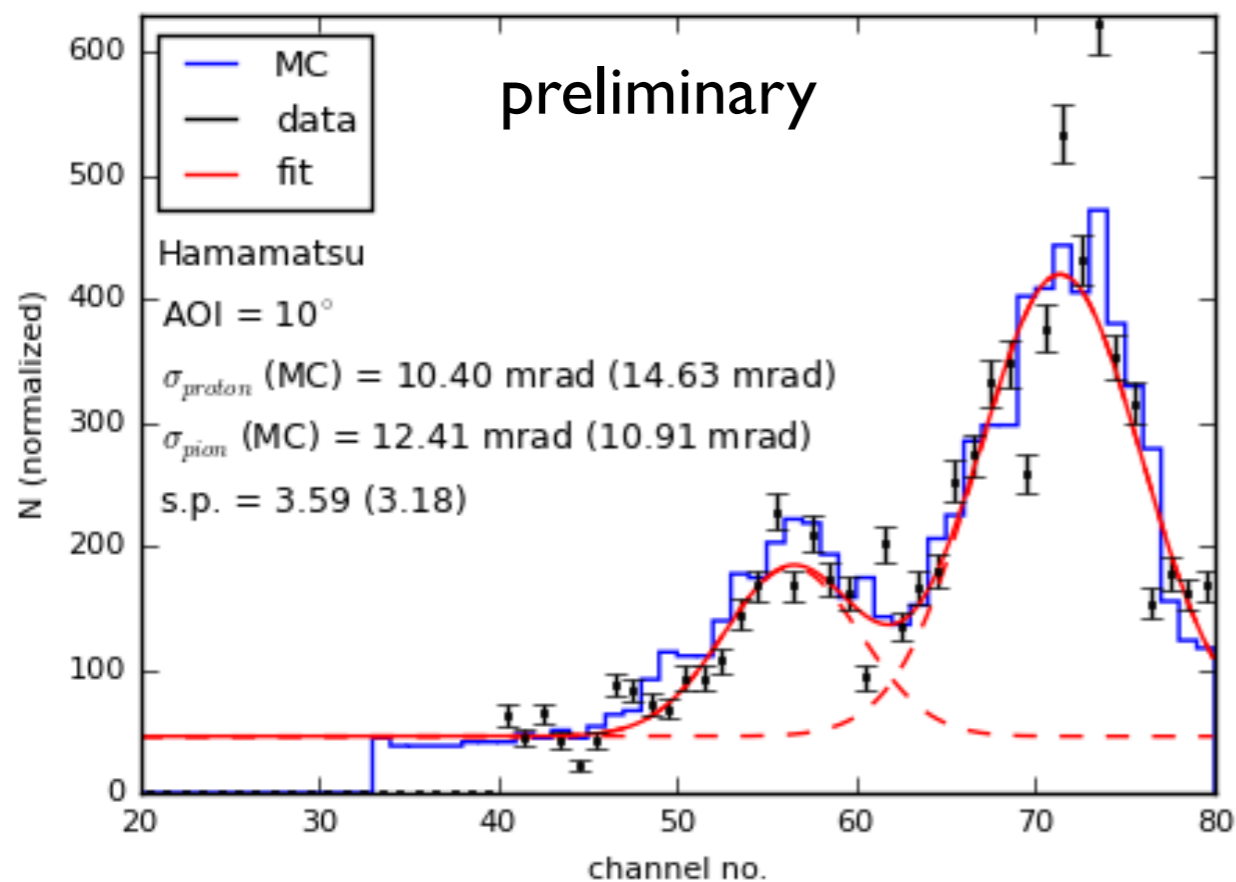


2015 Testbeam - 10 GeV/c



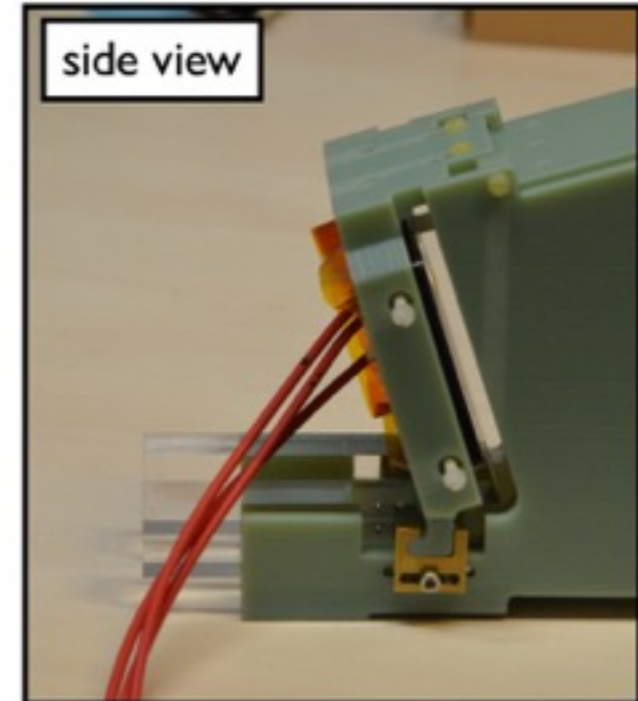
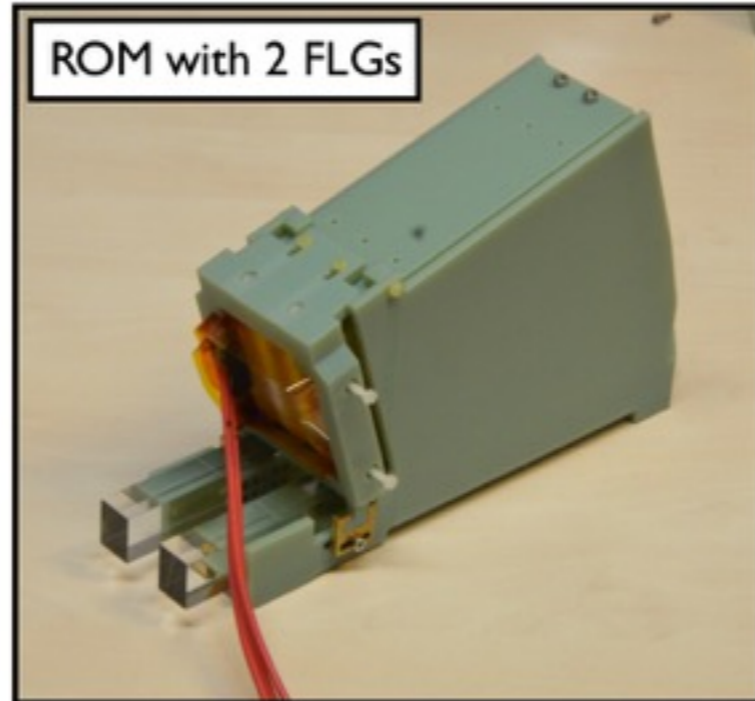
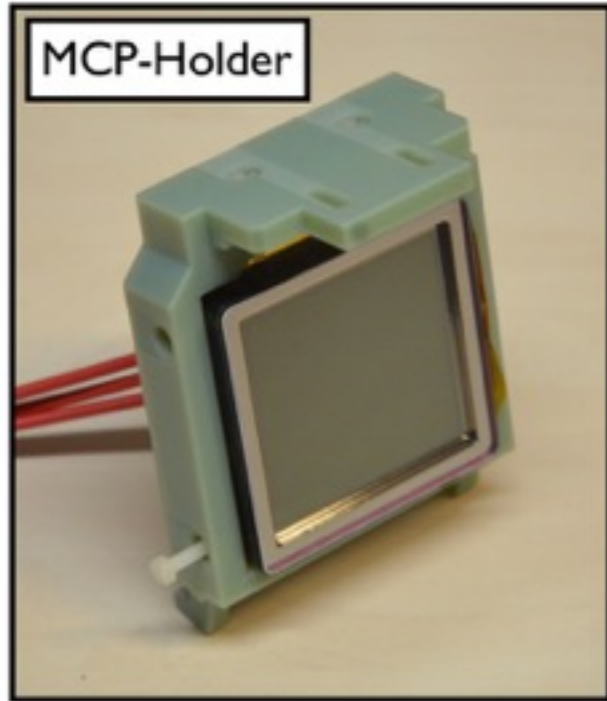






- pion proton separation with a single MCP-PMT @ 3 GeV/c

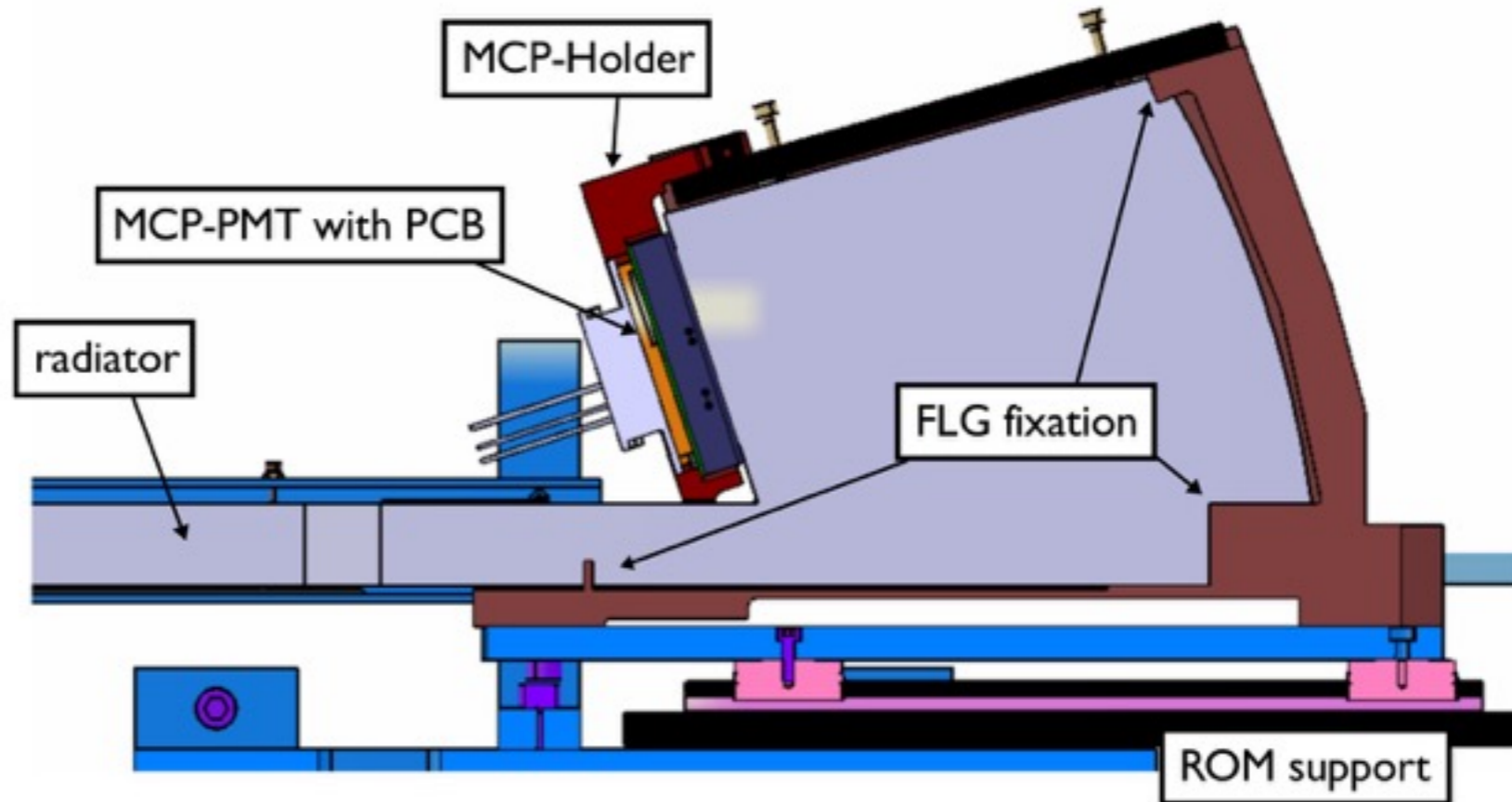
- Photon yield is too low compared to simulation ($\sim 30\%$)
- Single-photon resolution confirmed
- Good agreement with Monte-Carlo for the momentum scan and the scans at 3 and 10 GeV/c (large systematic uncertainty due to beam)
- Clear separation of pions and protons at 3 GeV/c with a single sensor

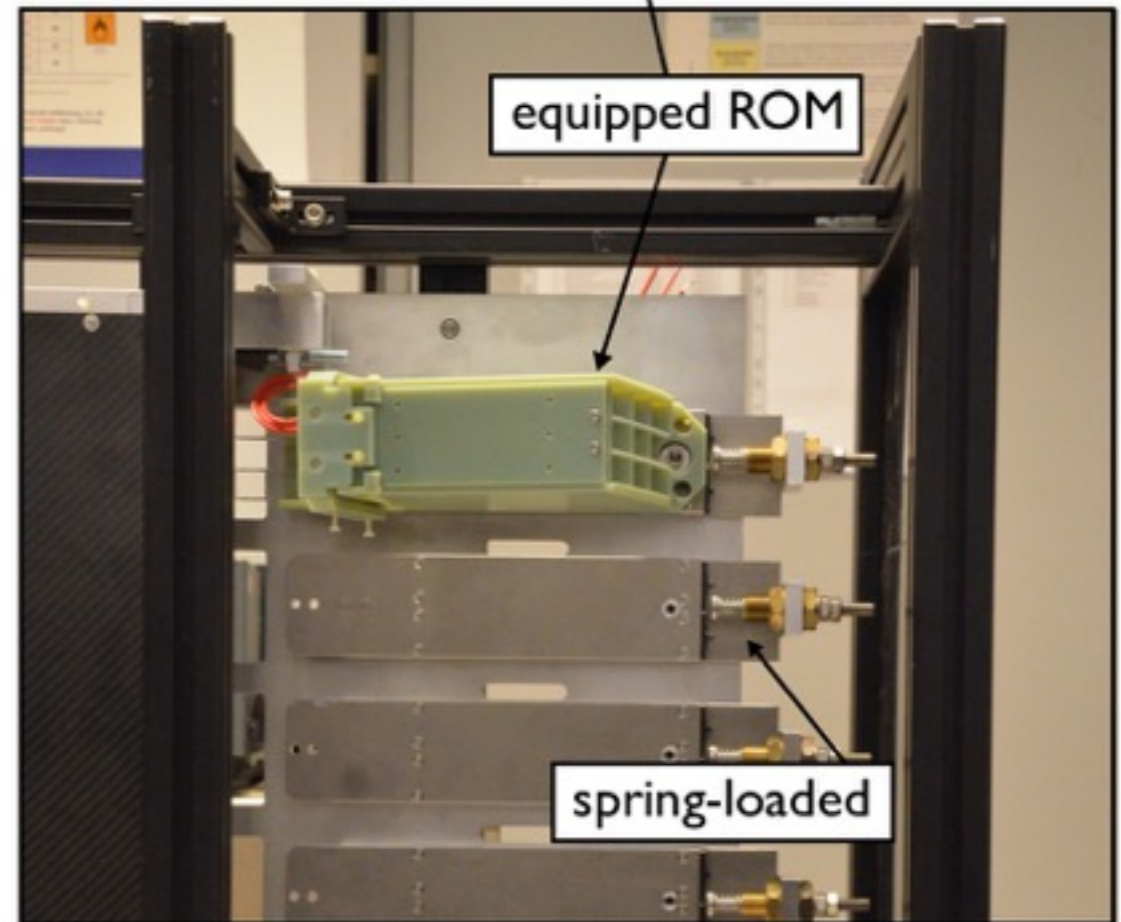
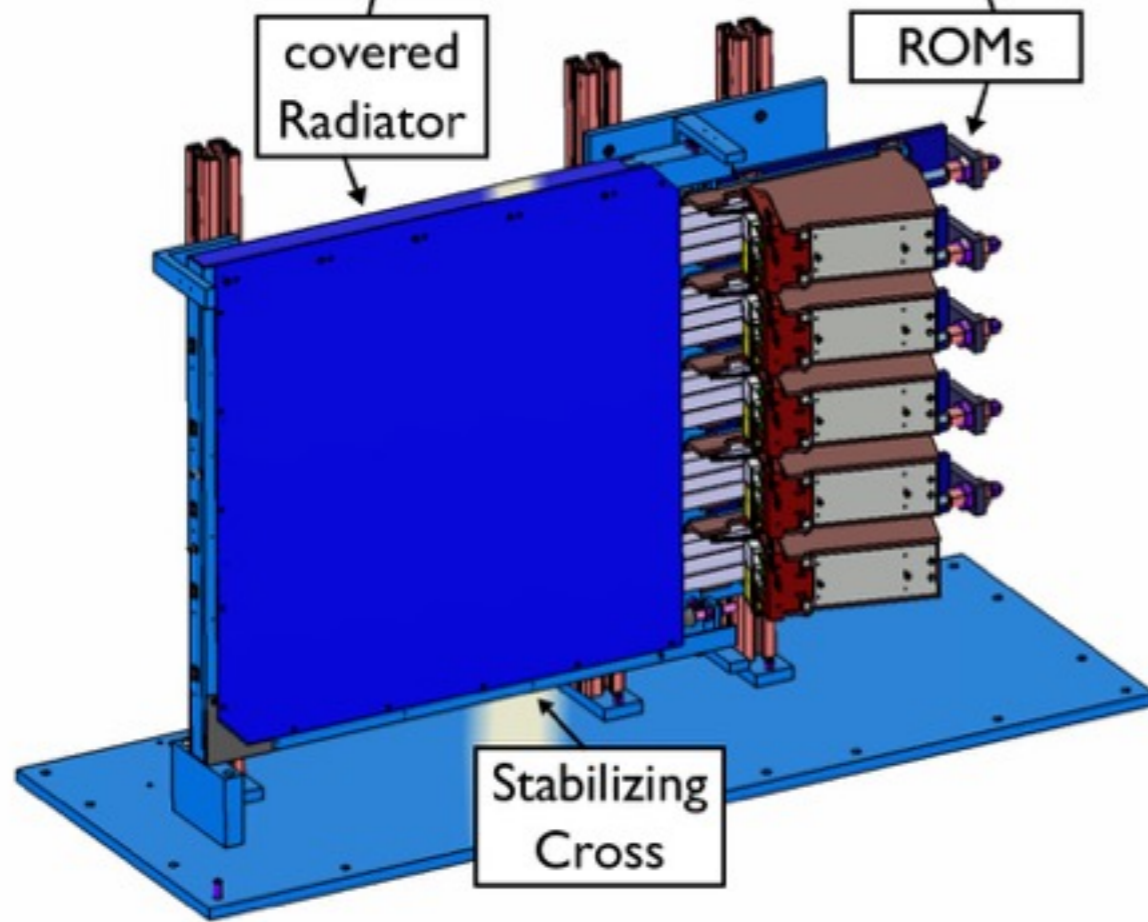
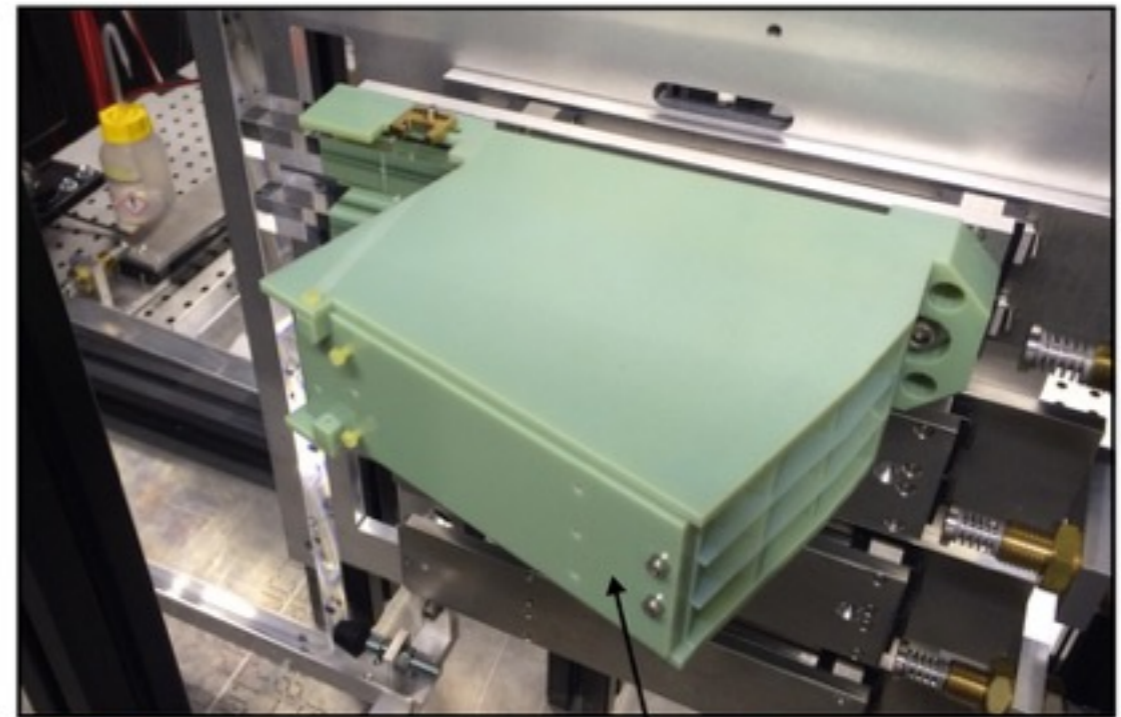
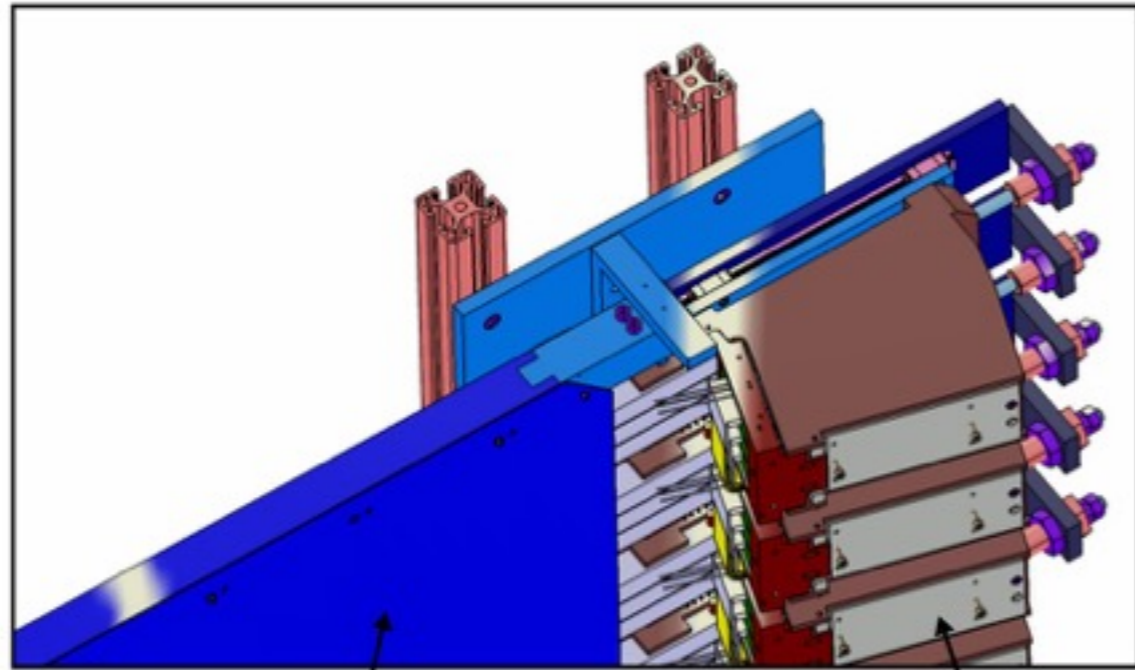


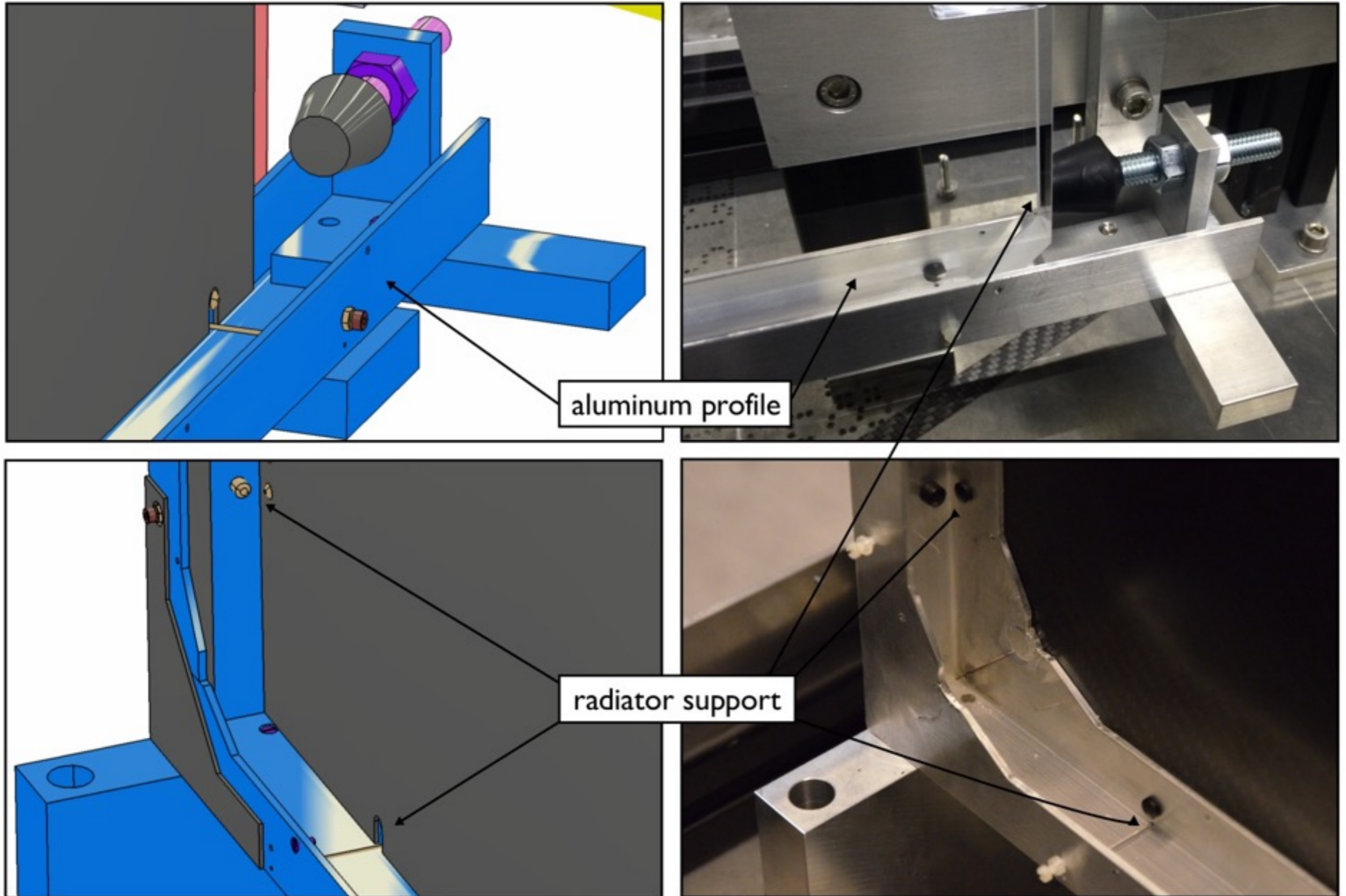
Hamamatsu

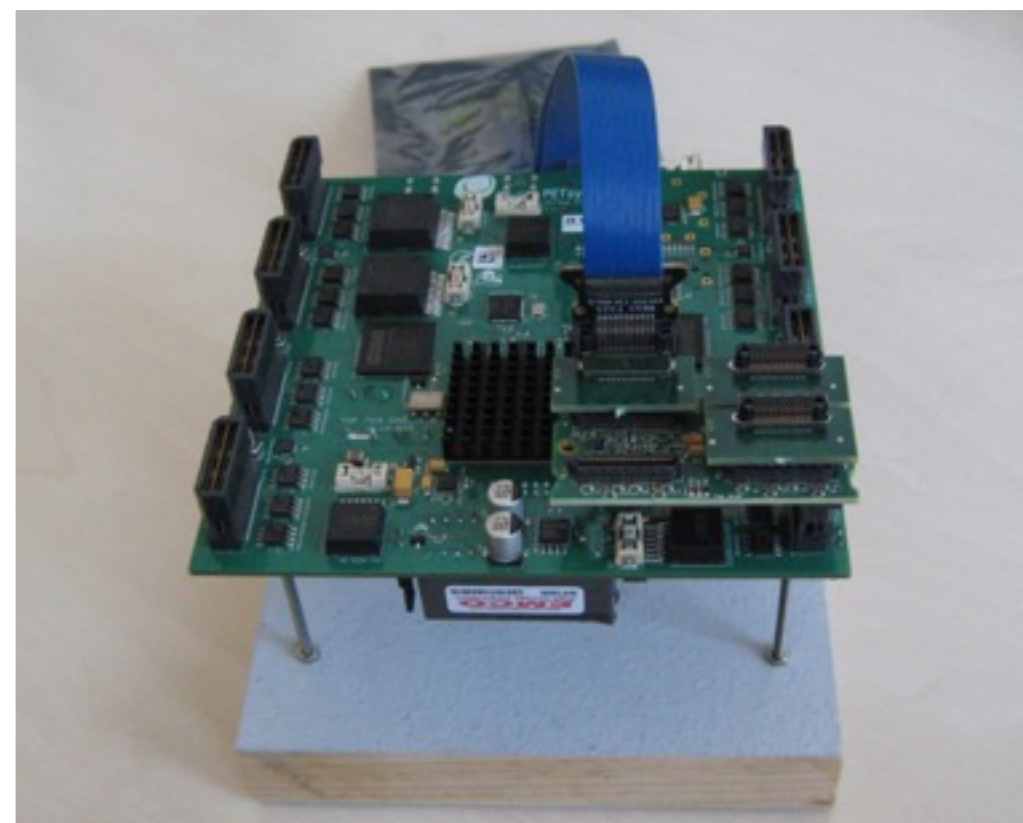
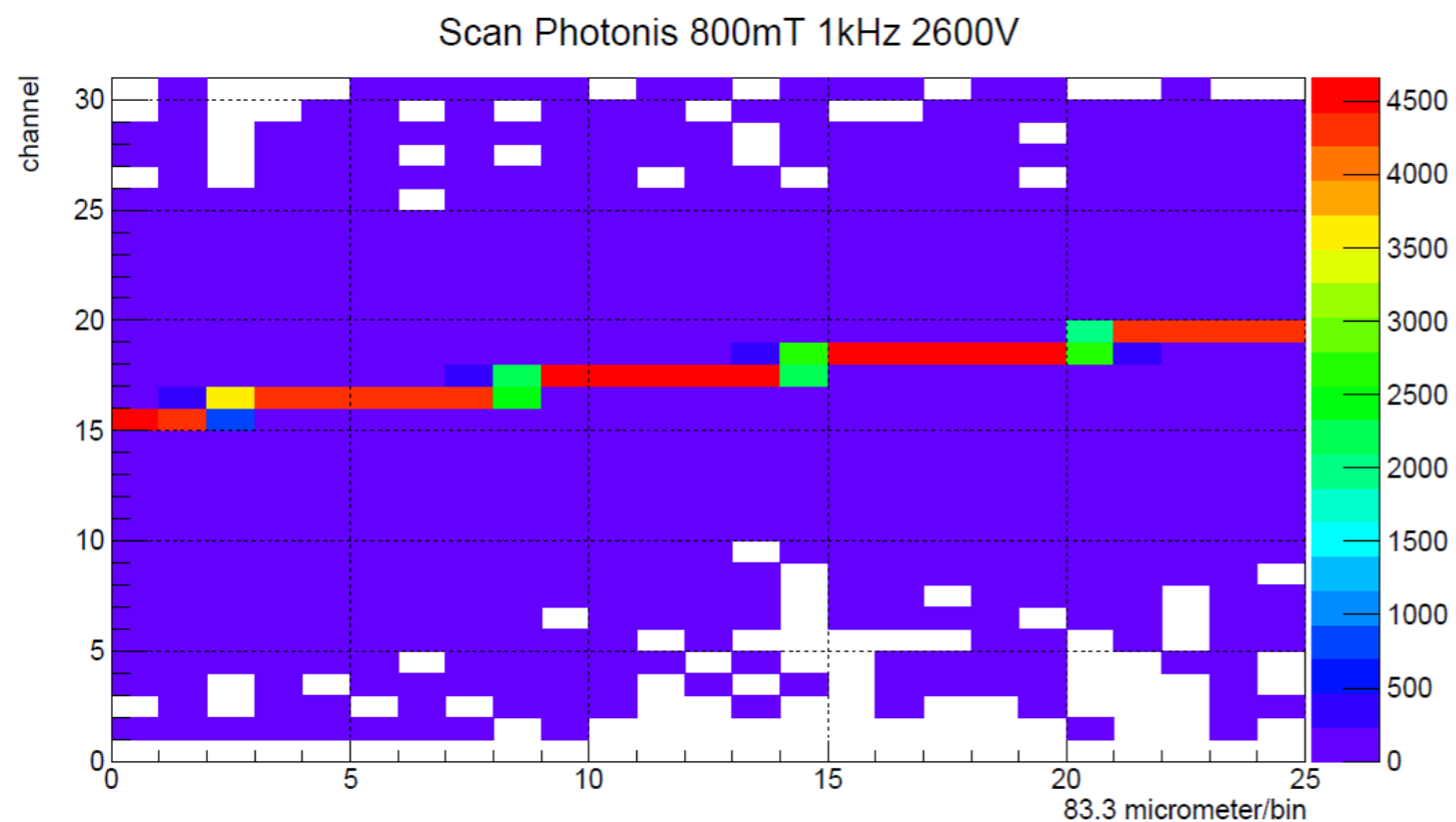


PHOTONIS



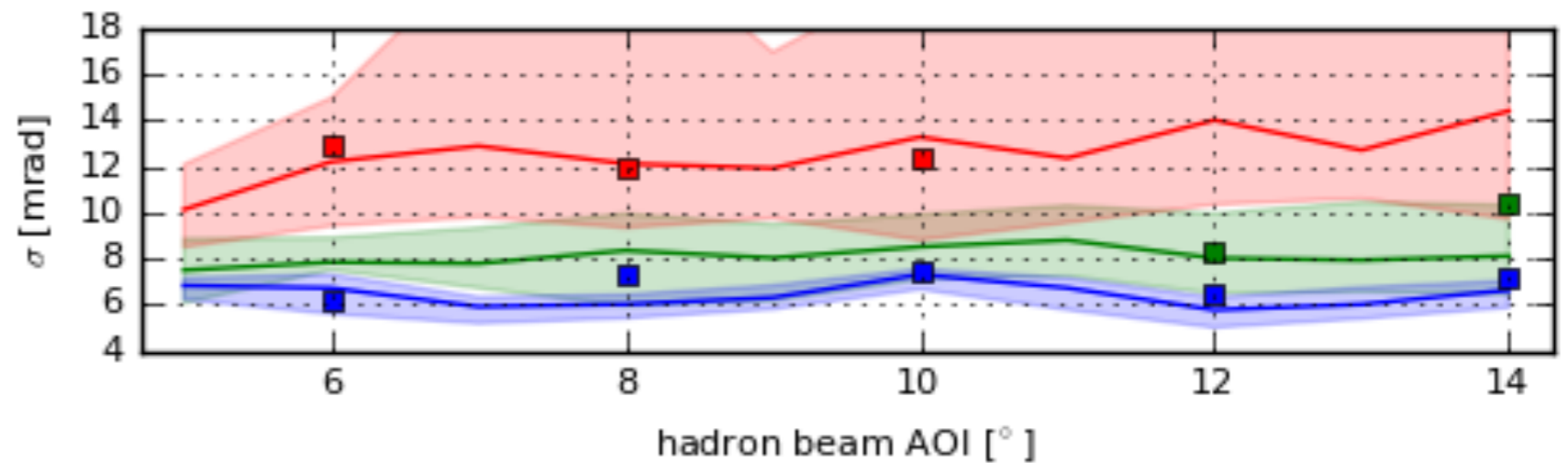
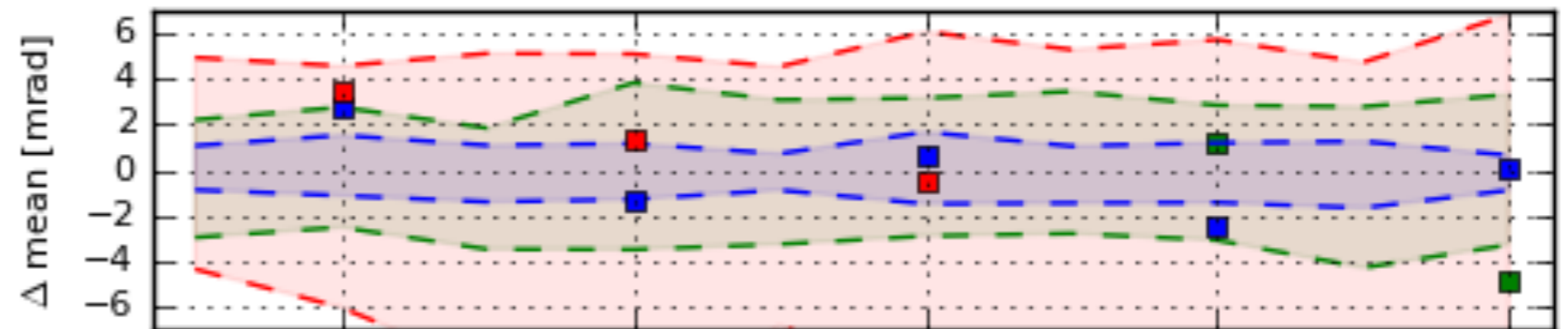
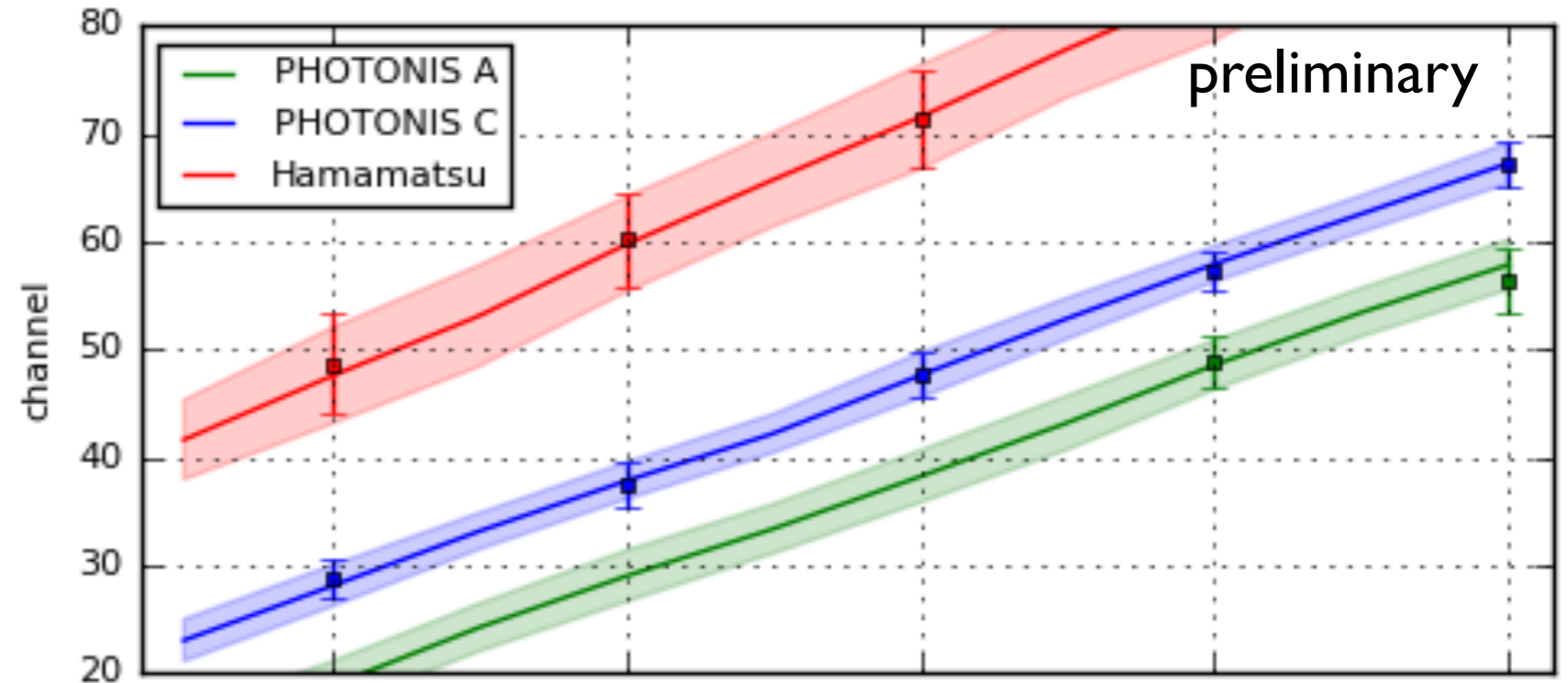
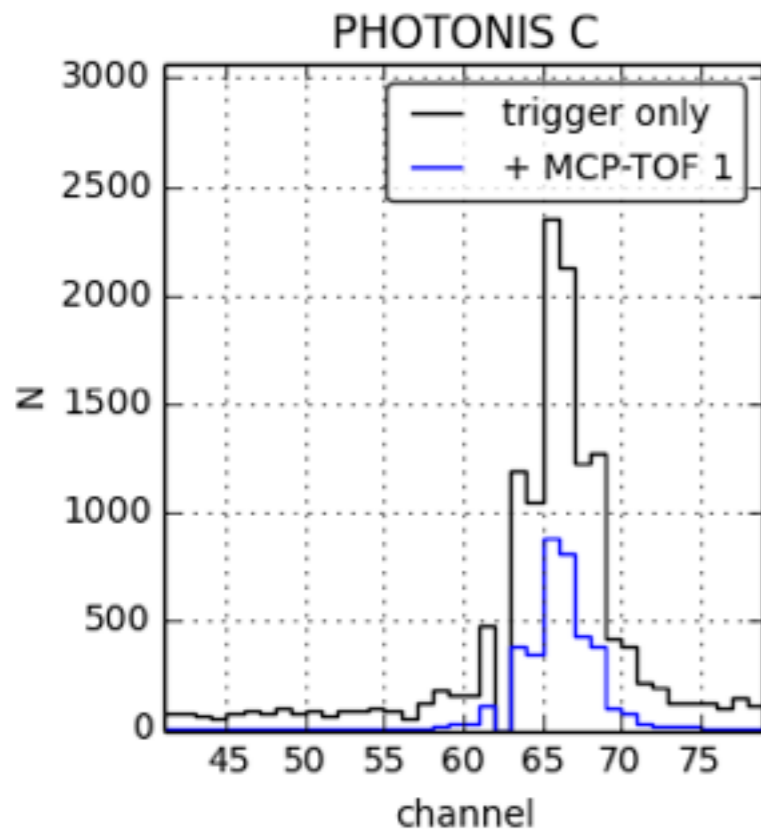
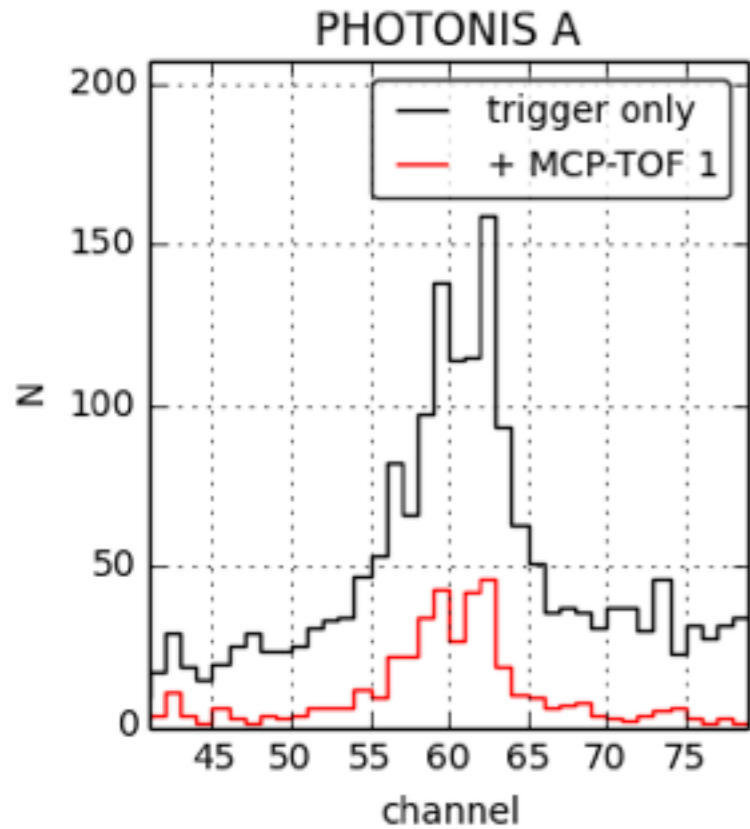






- Julian made a full scan using the PETSys Evaluation Kit
- Plot shows a scan inside a magnetic field
- TOFPET readout for 4 fully equipped ROMs has arrived







- removable part of cover with feedthroughs for up to 1344 channels

- 4 (partly equipped) ROMs
- new mechanics
 - easy access (no tape)
 - radiator fixed inside aluminum U-profile
 - 3D printed ROM cases
- TOFPET readout

- Beam time in October at DESY
- 3-6 GeV/c electron beam