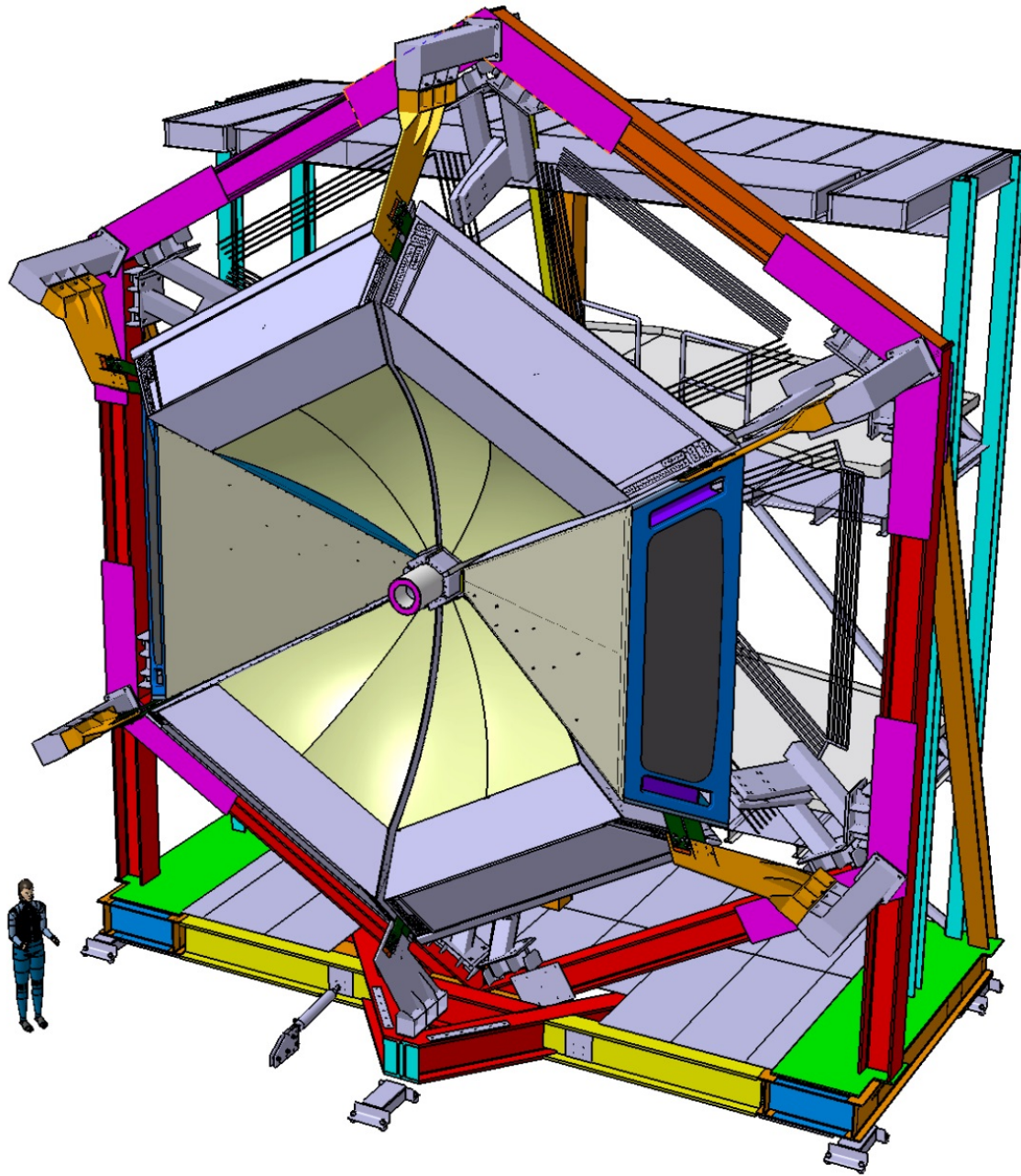


CLAS12-RICH Status-Report

October 17th 2014





AEROGEL:

Preliminary X-ray camera analysis done (Aram's talk last week)
New run of X-ray camera measurements
Thickness measurements planned for last week of October



MIRRORS:

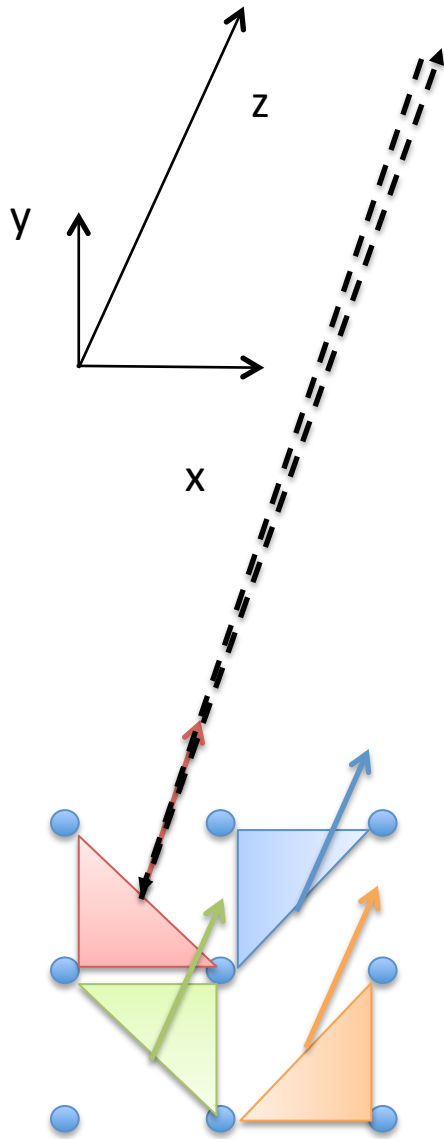
Media-Lario company has validated:
- surface roughness done in Frascati
- shape measurements done in Ferrara
Supremax mandrel back to Marcon company for re-polishing
Coating of Riba samples ongoing at ZAOT
Report for CMA about 1st demonstrator almost ready (Marco's talk)
Mechanical test for planar mirror in preparation at Frascati
Stress tests of CFRP mirrors ongoing



ELECTRONICS:

Prototype boards delivered (Matteo's talk)
Preliminary tests ok
Electronics test-bench in preparation at Ferrara
FPGA firmware under development at JLab
Mechanical Tests in preparation at Frascati

D0 Simulation



Mirror laying in the (x,y) plane

Mirror surface defined from the touching machine grid

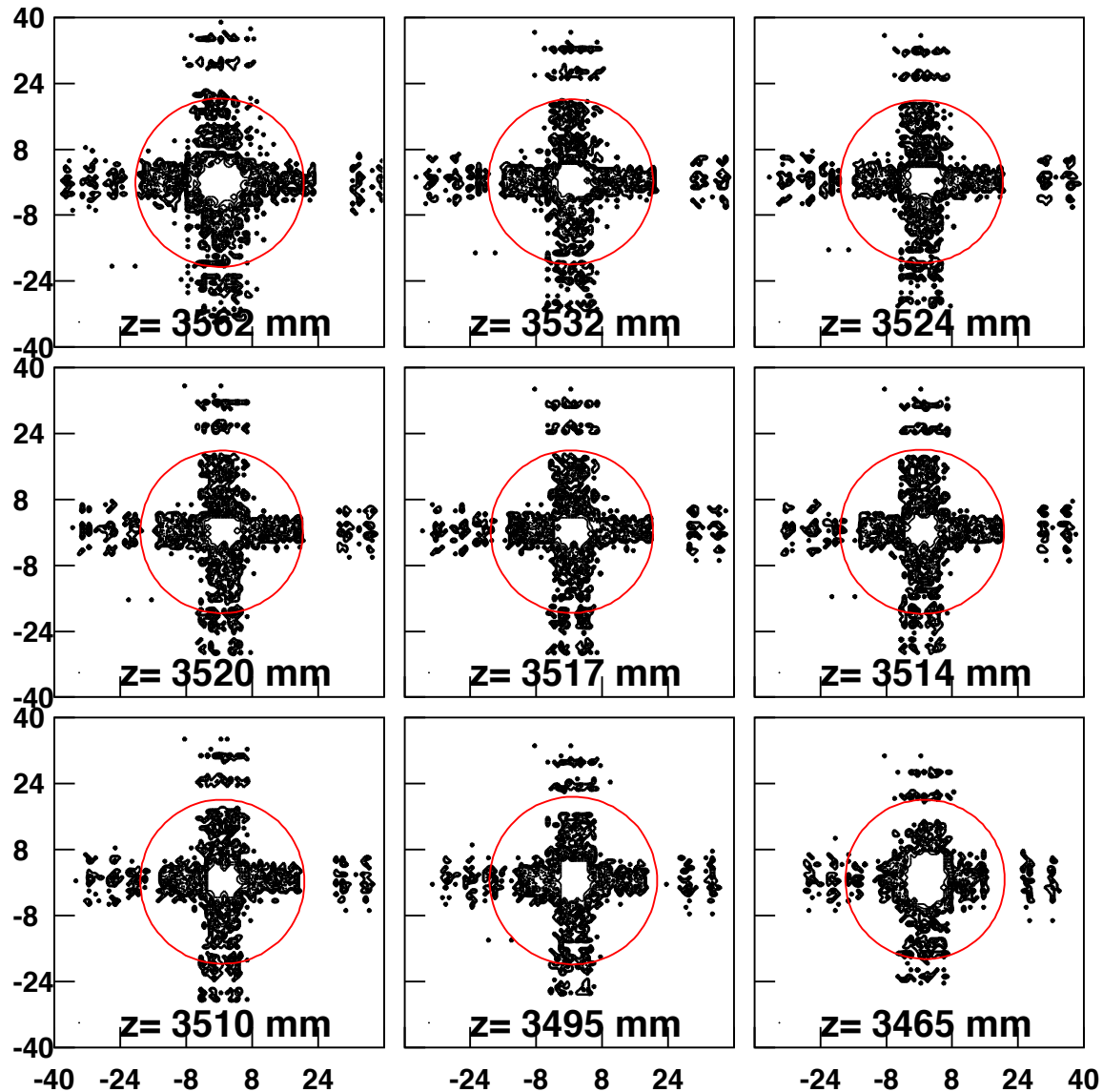
Point-like source at $(0,0,z)$

For each group of 4 measured points:

- 4 triplets
- 4 reflecting planes
- 4 images of a point-like source

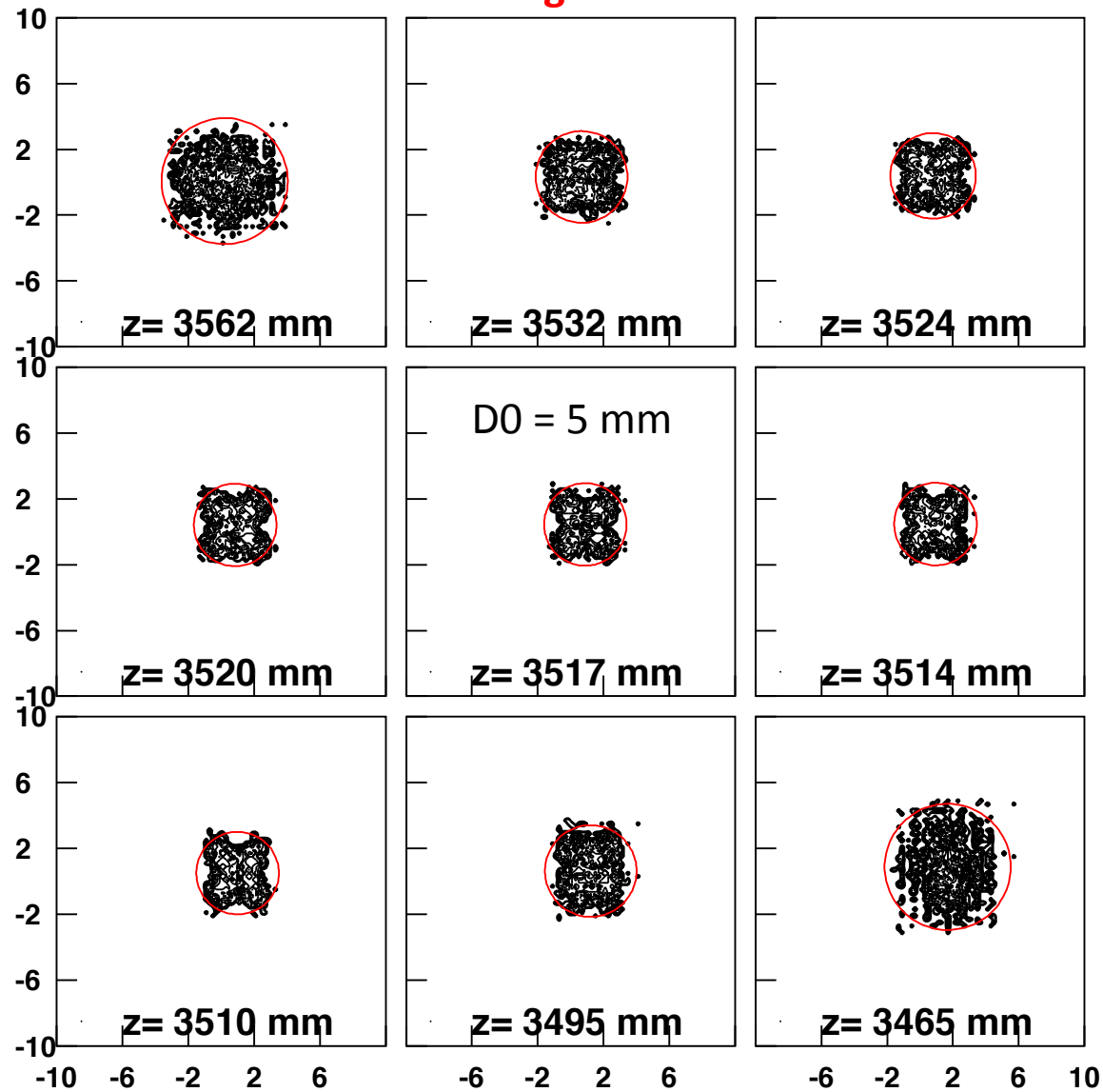
D0 is the diameter of the circle containing 95 % of images

D0 Simulation: CMA Coated

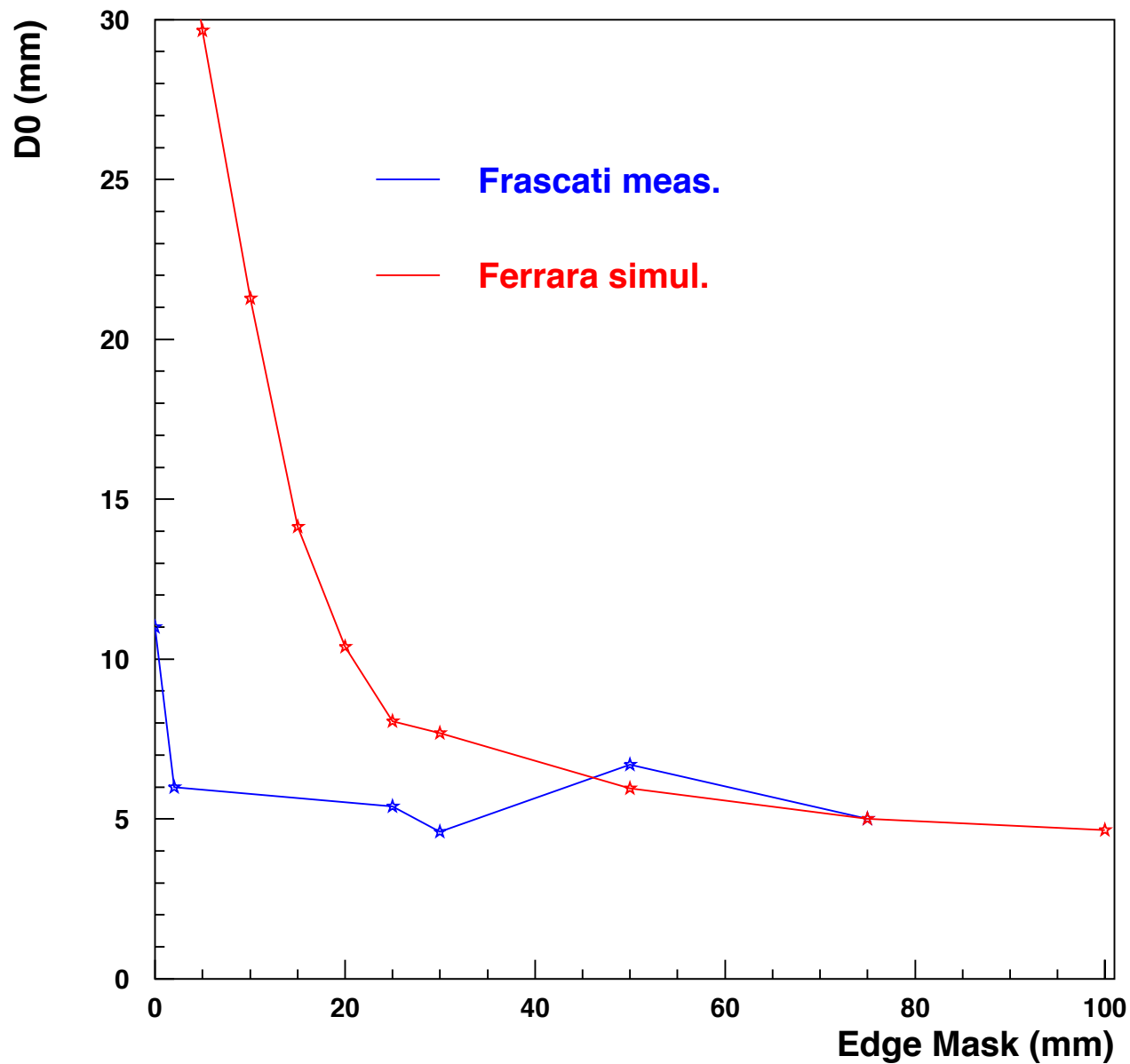


D0 Simulation: CMA Coated

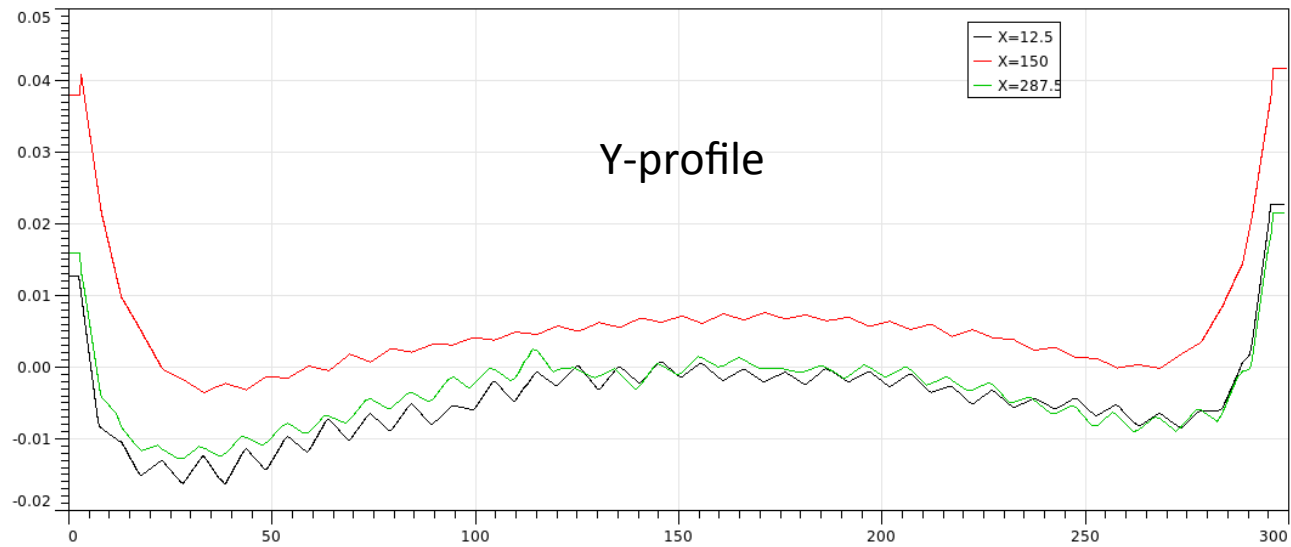
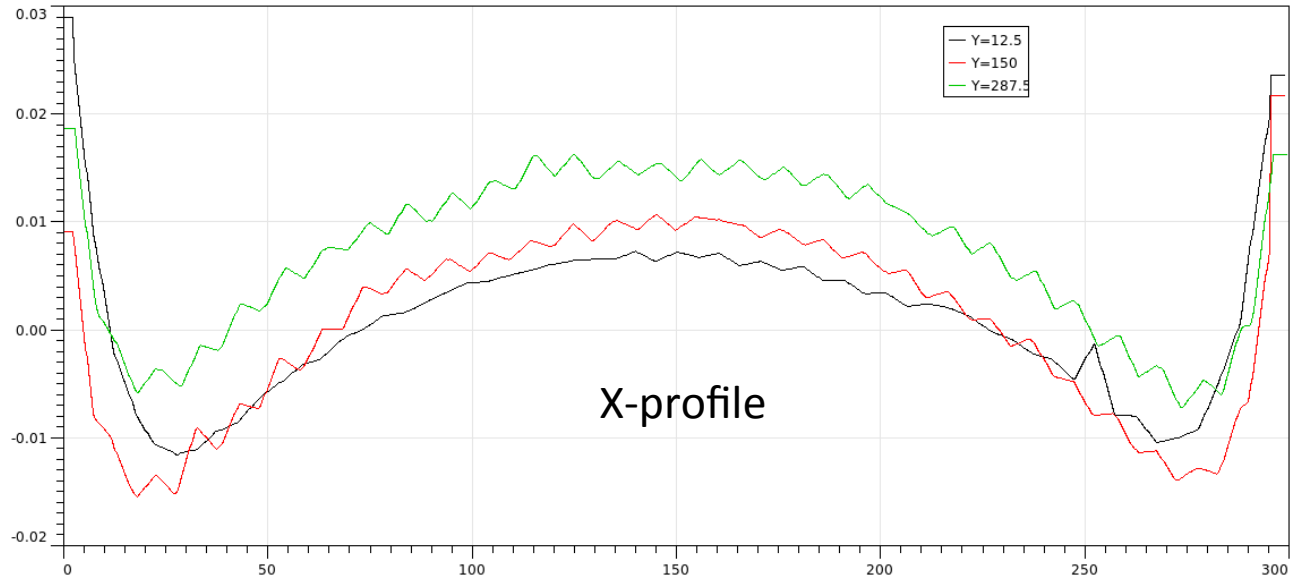
75 mm Edge Mask



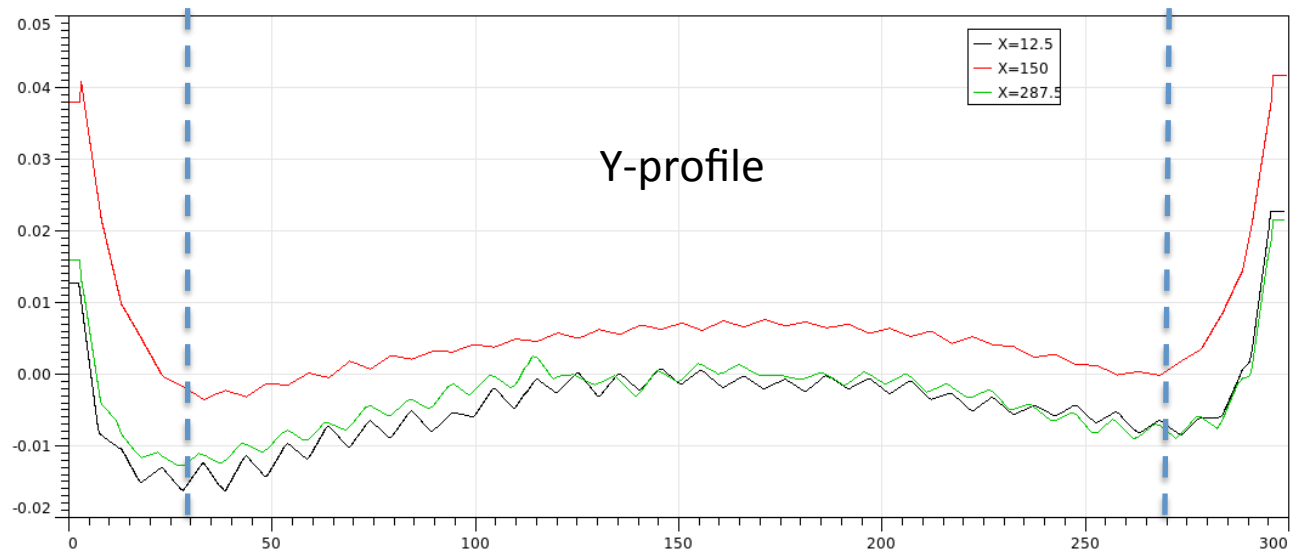
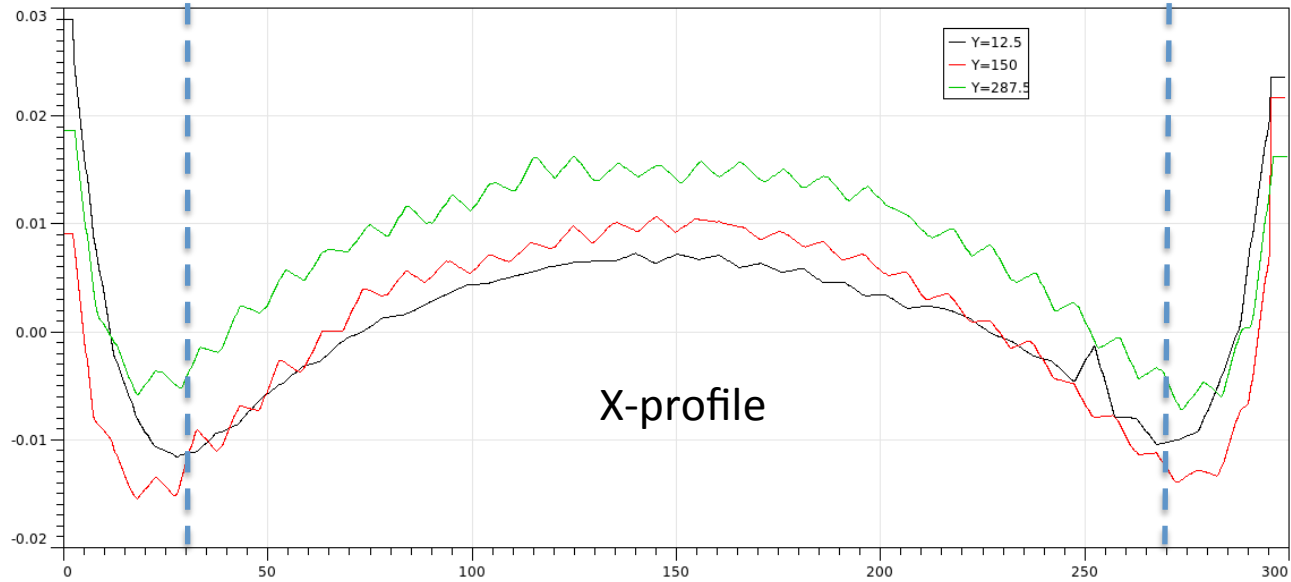
D0 Simulation: CMA Coated



CMA Coated



CMA Coated



D0 Simulation: CMA Coated

