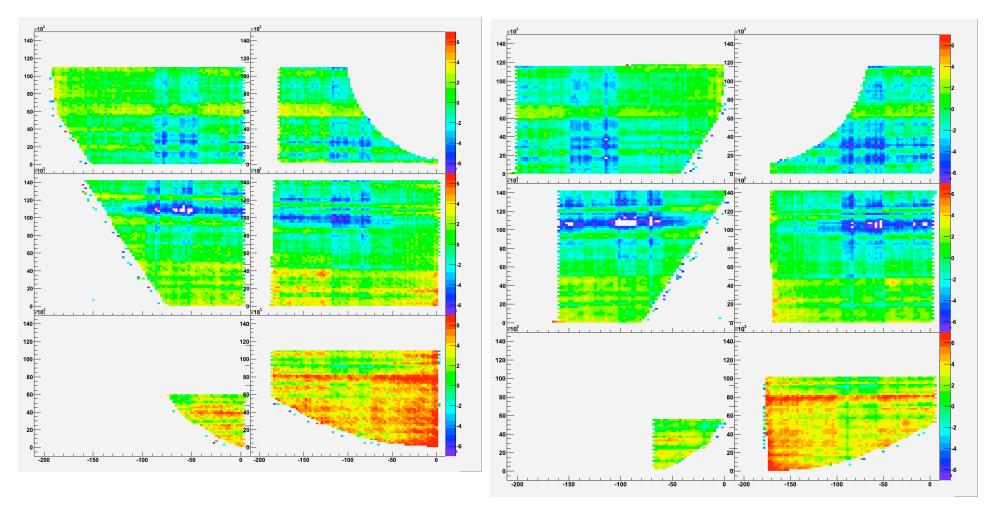
GEM Foil Scans

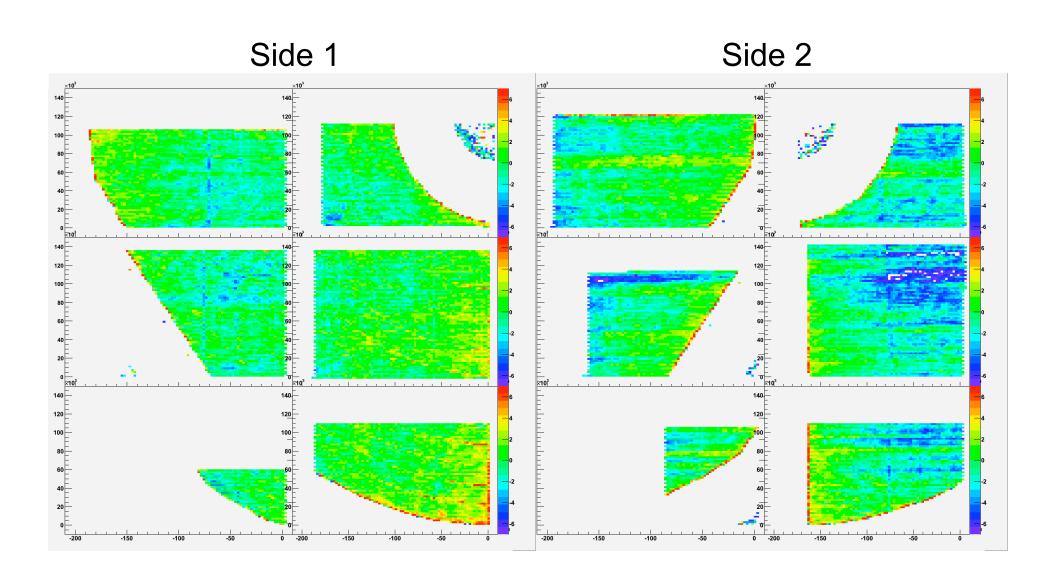
Will Leight September 30, 2009

Tech-Etch Foil 2 Full Scan: Inner Diameters

Side 1 Side 2

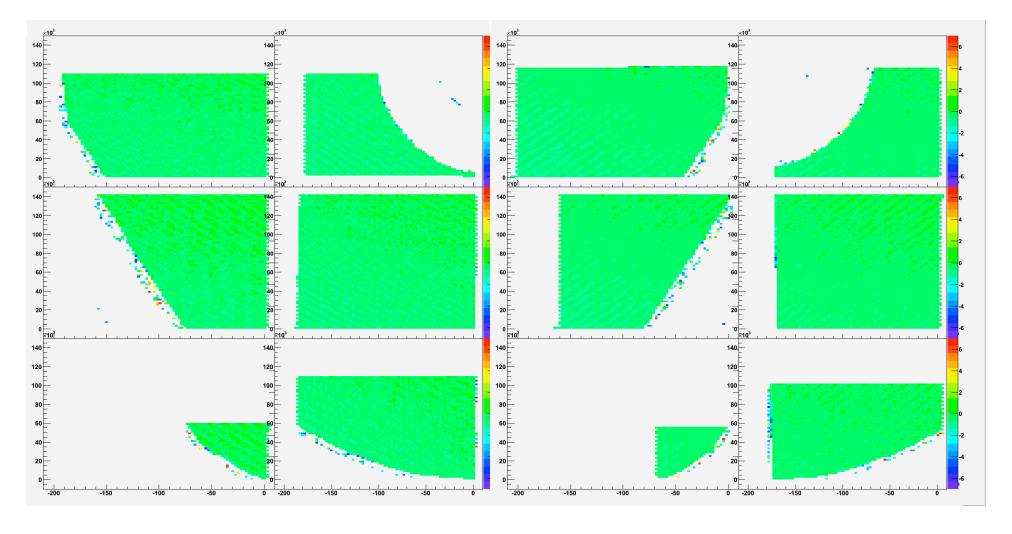


Tech-Etch Foil 2 Full Scan: Outer Diameters

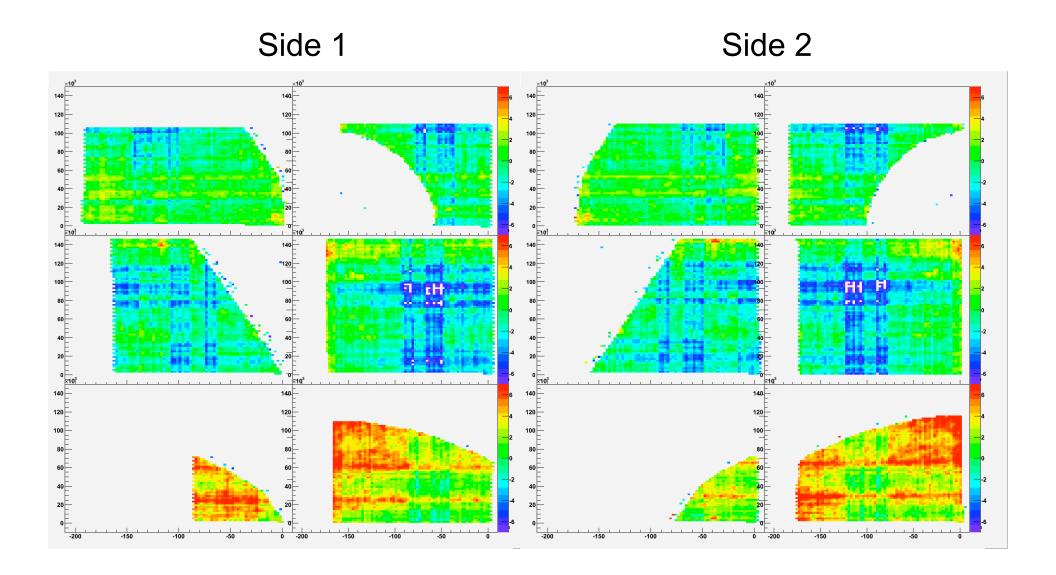


Tech-Etch Foil 2 Full Scan: Pitches

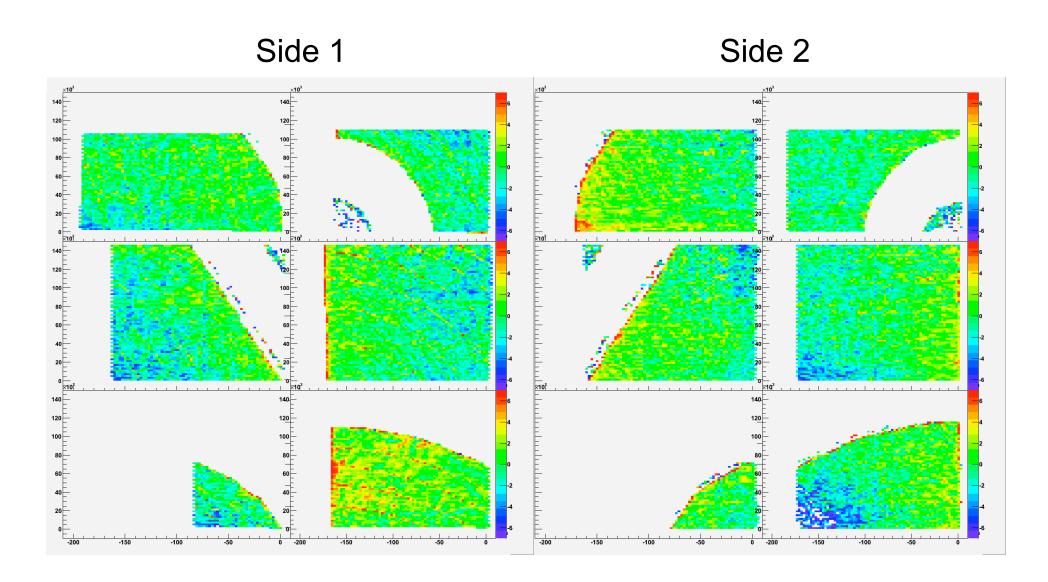
Side 1 Side 2



Tech-Etch Foil 6 Full Scan: Inner Diameters

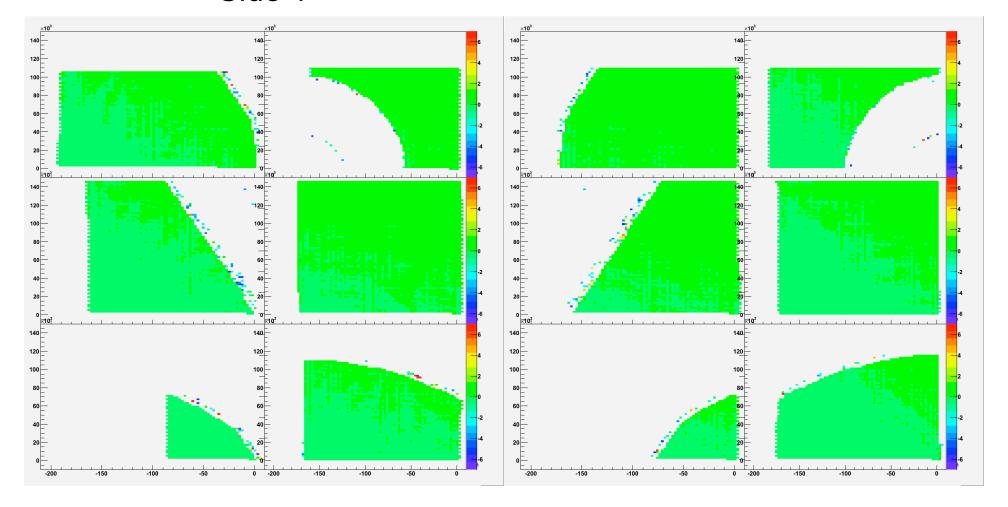


Tech-Etch Foil 6 Full Scan: Outer Diameters



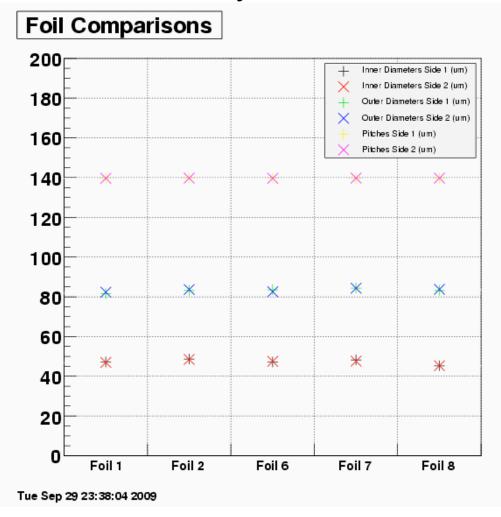
Tech-Etch Foil 6 Full Scan: Pitches

Side 1 Side 2



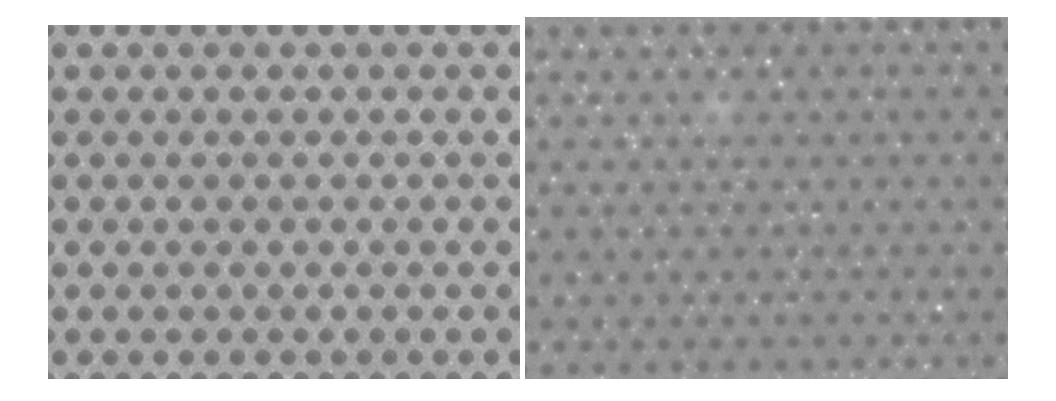
Comparing Tech-Etch Foils

All values are taken from Gaussian fits to the results of random scans, in which 200 pictures are taken randomly for each of the six regions.



Comparing Tech-Etch and CERN Foils

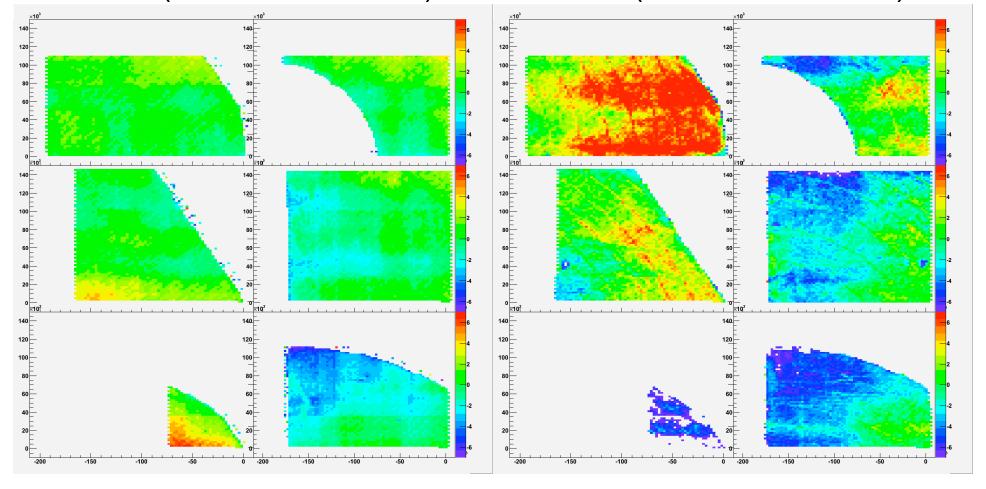
Tech-Etch is on the left, CERN on the right. The 'speckling' visible on the CERN foils makes image processing harder: the images have to be run through a filter to reduce noise.



CERN Foil 2 Full Scan: Side 1 Diameters

Inner Diameters, average 53 um (Tech-Etch, 47 um)

Outer diameters, average 66 um (Tech-Etch, 83 um)



CERN Foil 2 Full Scan: Side 1 Pitches

Average: 140 um

