Stability of resolution – RICH1
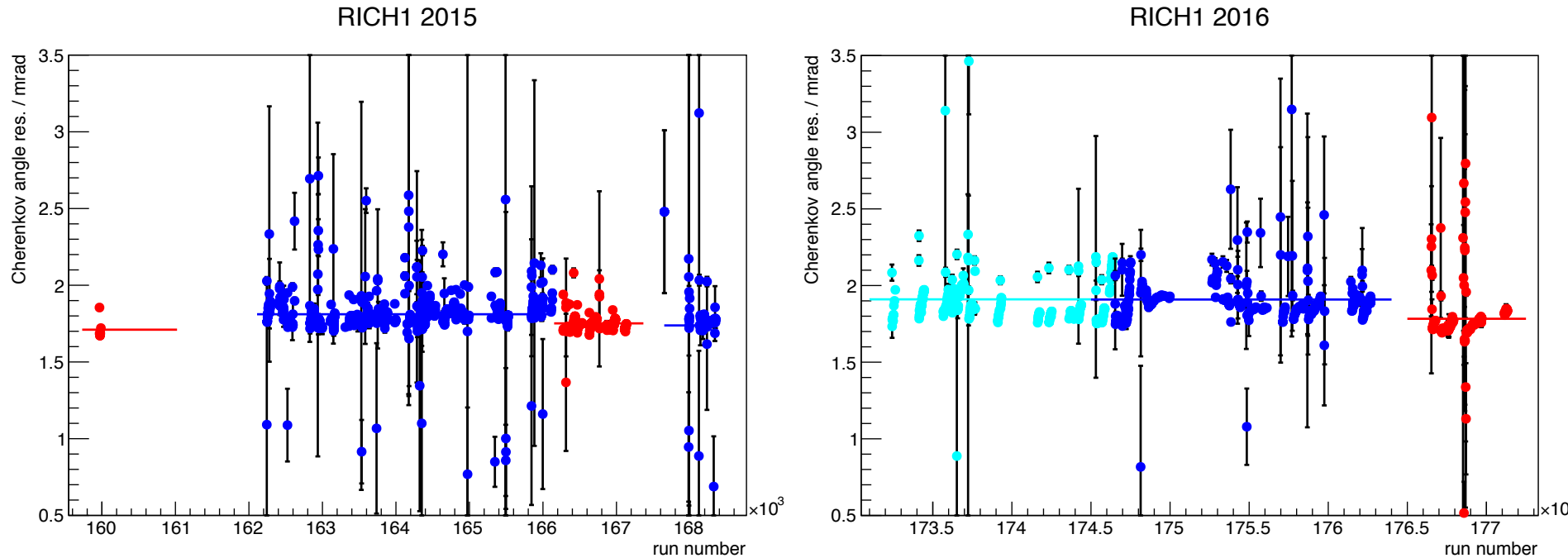
RICH1 resolution from histograms for refractive index calibration (without HPD image correction)
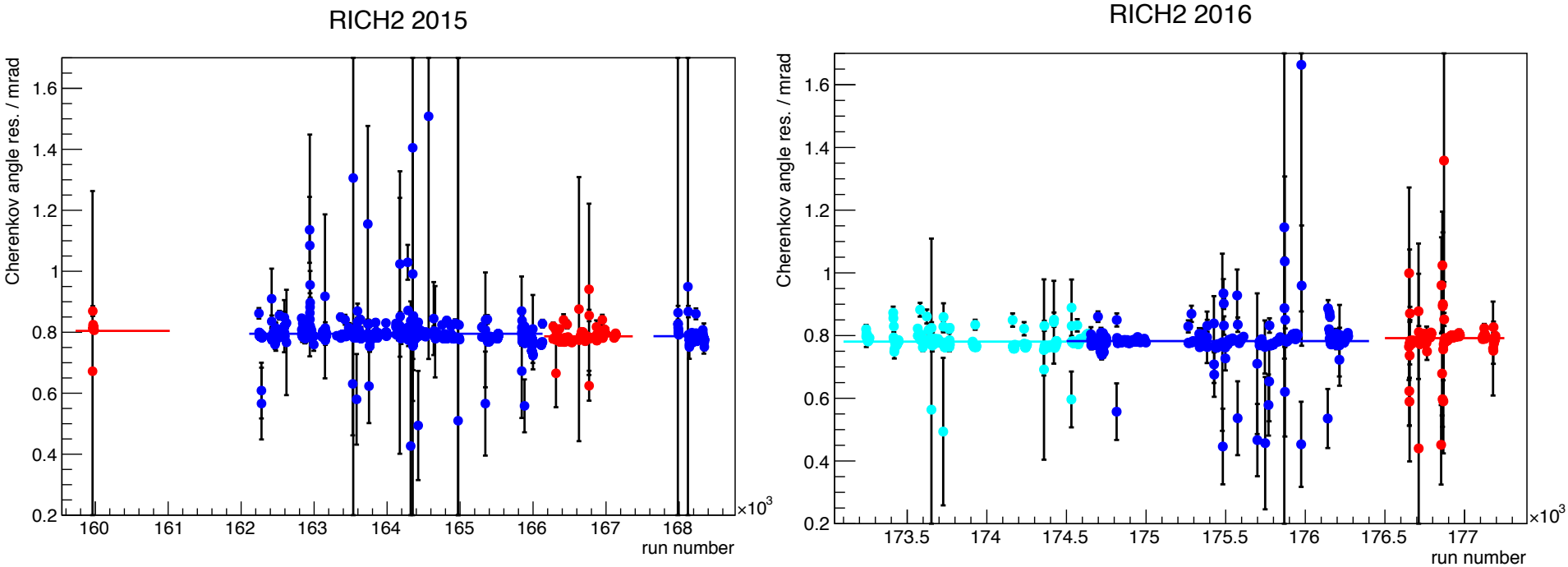
RICH1 2015

RICH1 2016

magnet down
magnet up
magnet down before new DB

1

Stability of resolution- RICH2

RICH2 resolution from histograms for refractive index calibration (without HPD image correction)

RICH2 2015

RICH2 2016
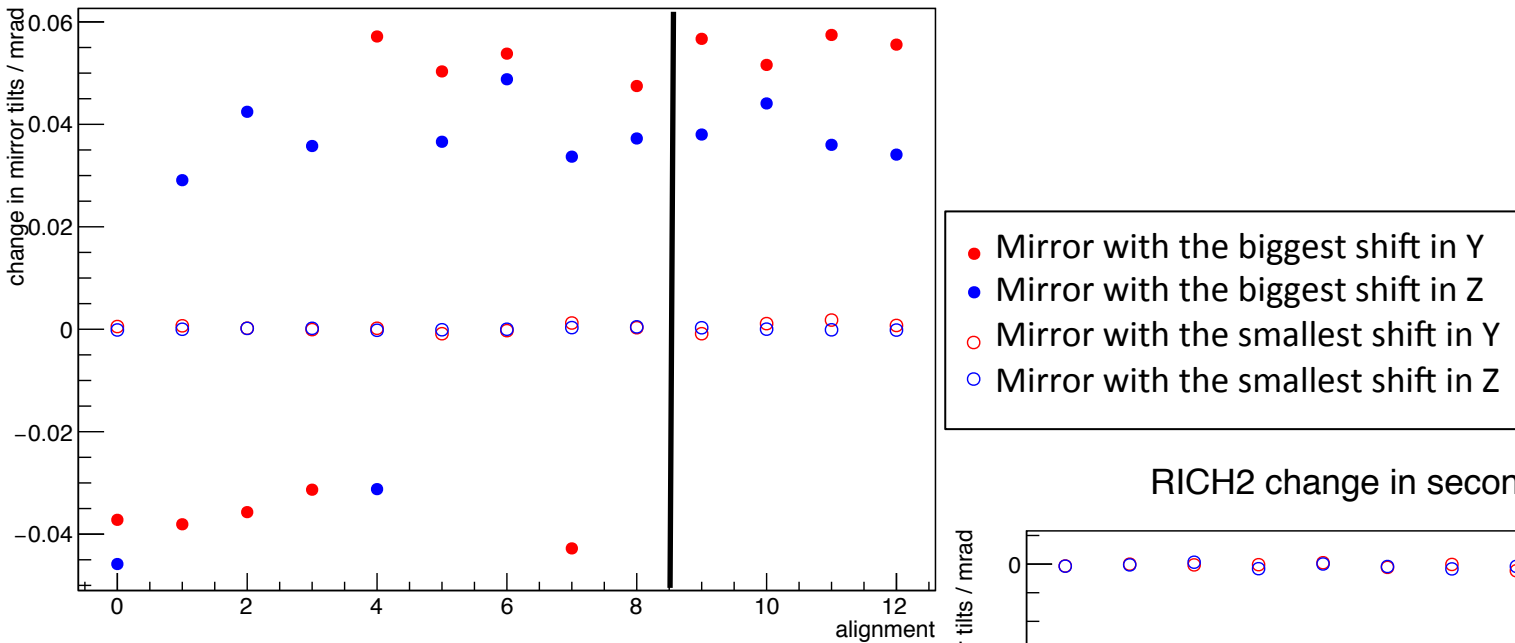
magnet down
magnet up
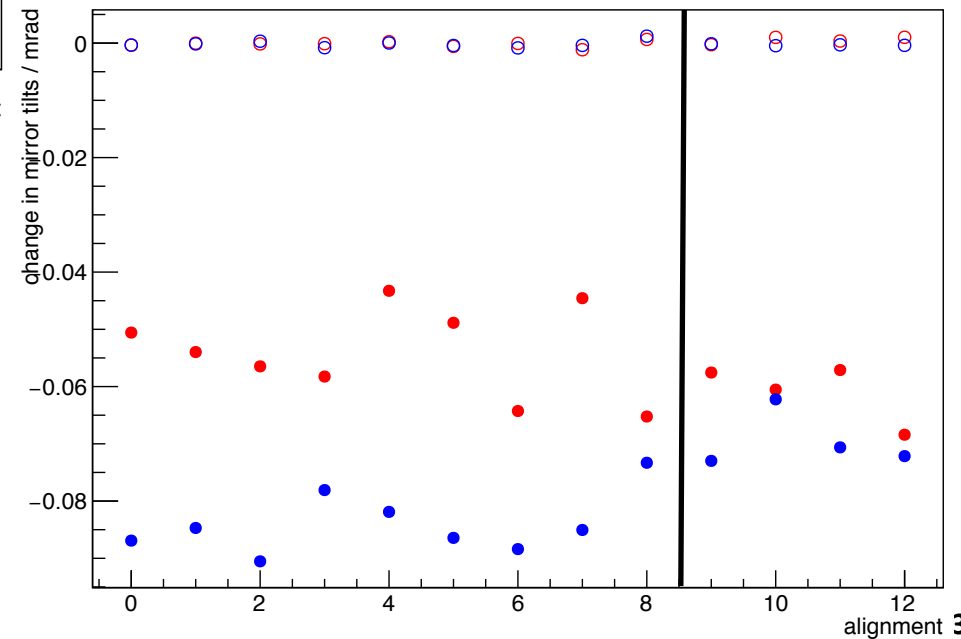magnet down before new DB

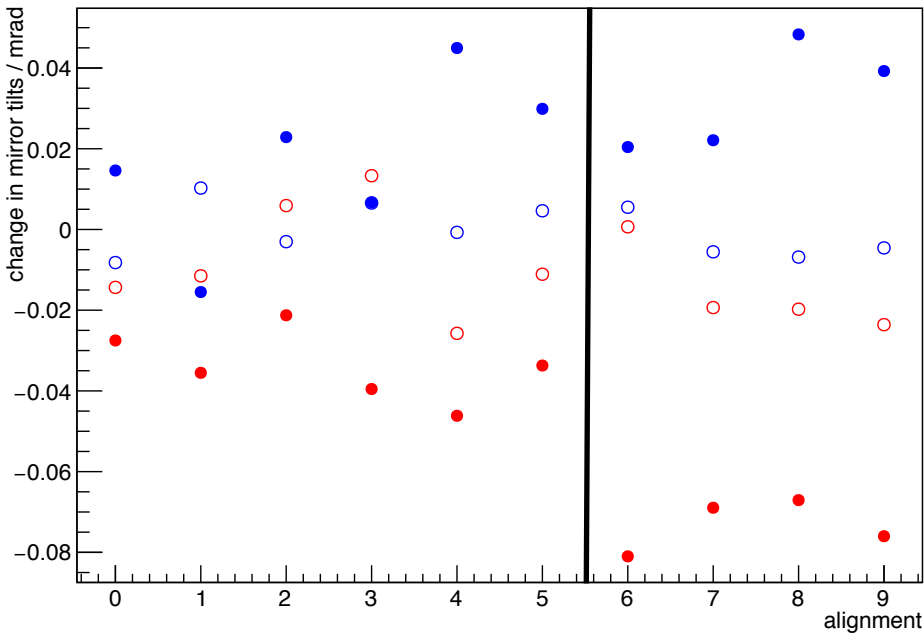# Mirror tilts – RICH2

RICH2 change in primary mirror tilts

- ● Mirror with the biggest shift in Y
- ● Mirror with the biggest shift in Z
- ○ Mirror with the smallest shift in Y
- ○ Mirror with the smallest shift in Z

RICH2 change in secondary mirror tilts

convergence criteria < 0.1 mrad
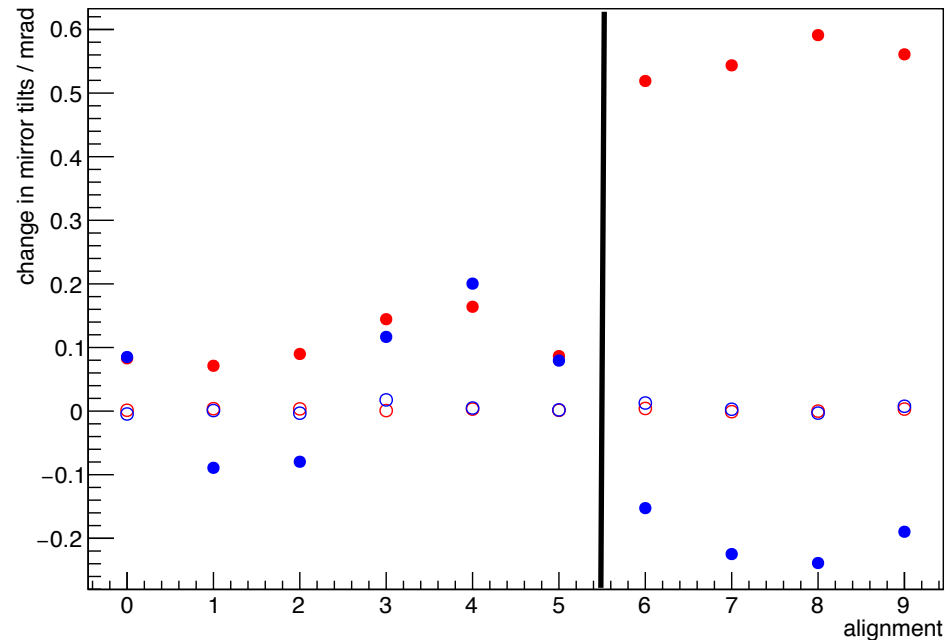➔ all alignments converged after 1 iteration

Mirror tilts - RICH1

RICH1 change in primary mirror tilts

- Mirror with the biggest shift in Y
- Mirror with the biggest shift in Z
- Mirror with the smallest shift in Y
- Mirror with the smallest shift in Z
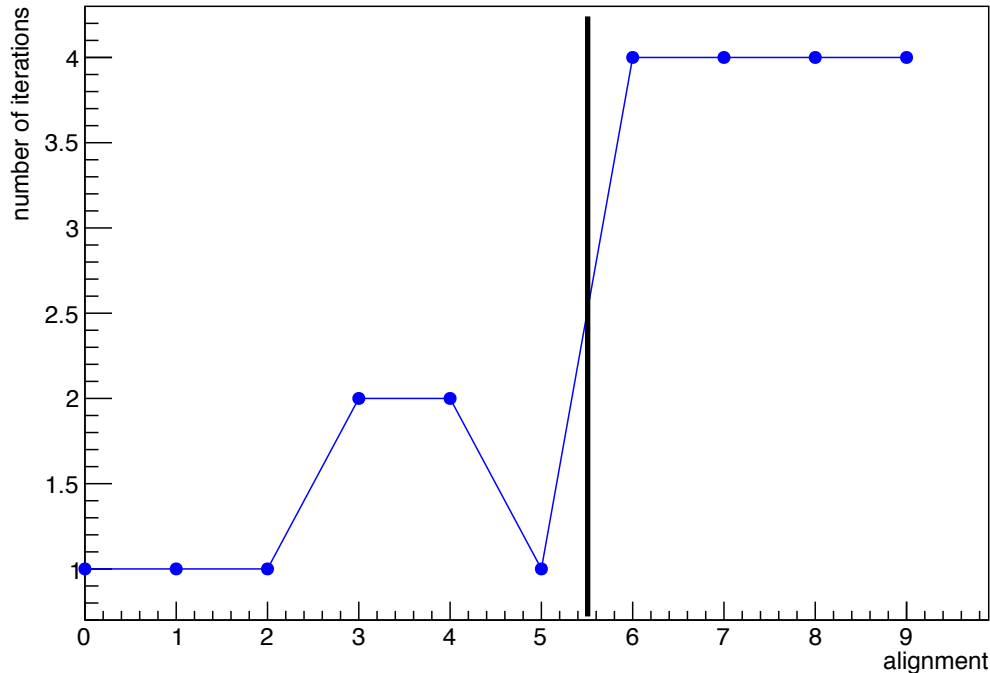
RICH1 change in secondary mirror tilts

convergence criteria < 0.1 mrad
➔ not all alignments converged after 1 iteration ☹

RICH1 numbers of **iterations needed to converge**, alignment starting from current DB

- biggest improvement seen *in alignment histograms* in resolution of 0.004mrad (by alignment 6)
- Magnet up resolution better than down 'anyway'

➔ What now?
- Increase convergence criteria?
- 'unofficially' start from mag up alignment?s