

Re-alignment of DR

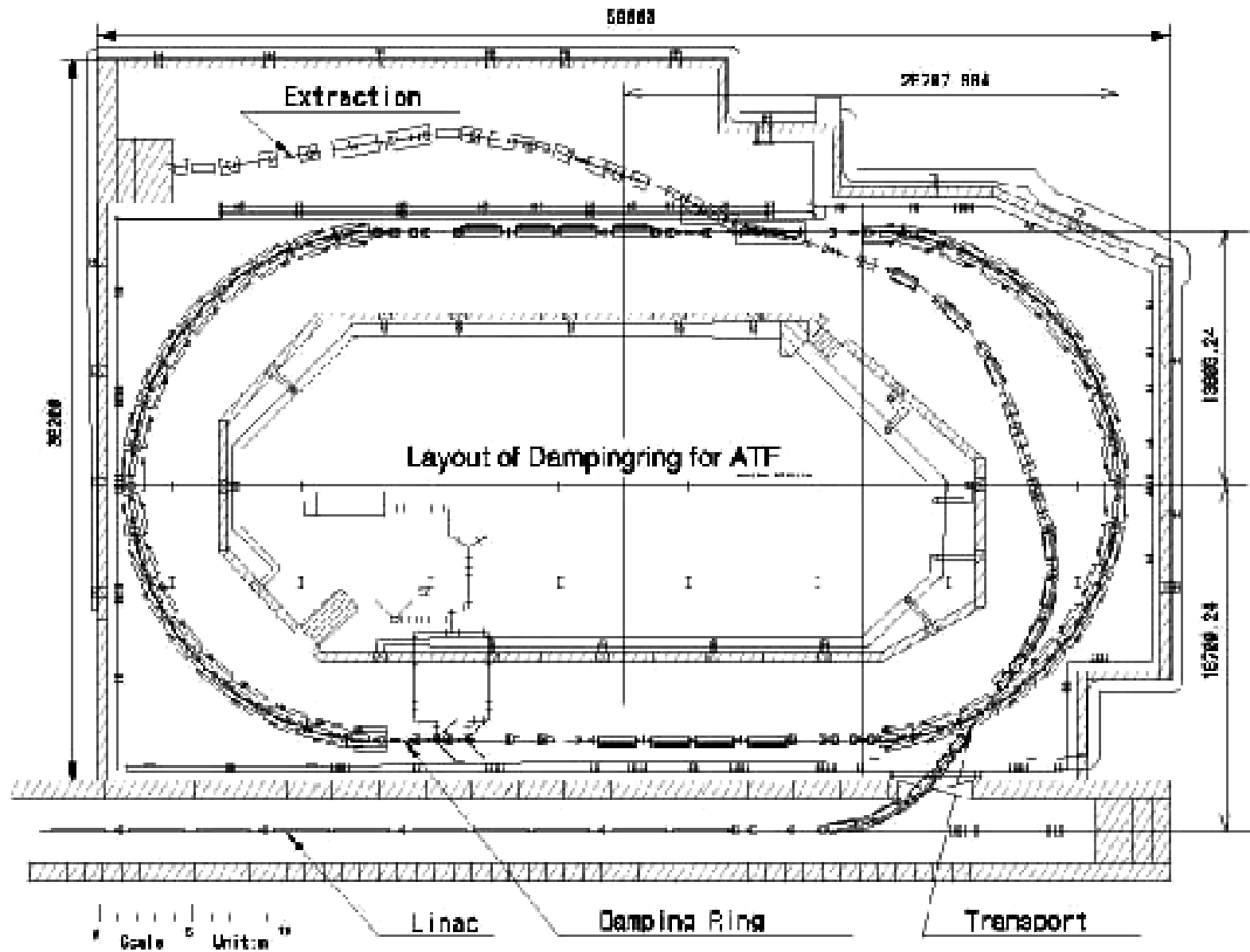
Mikio Takano

OVERVIEW

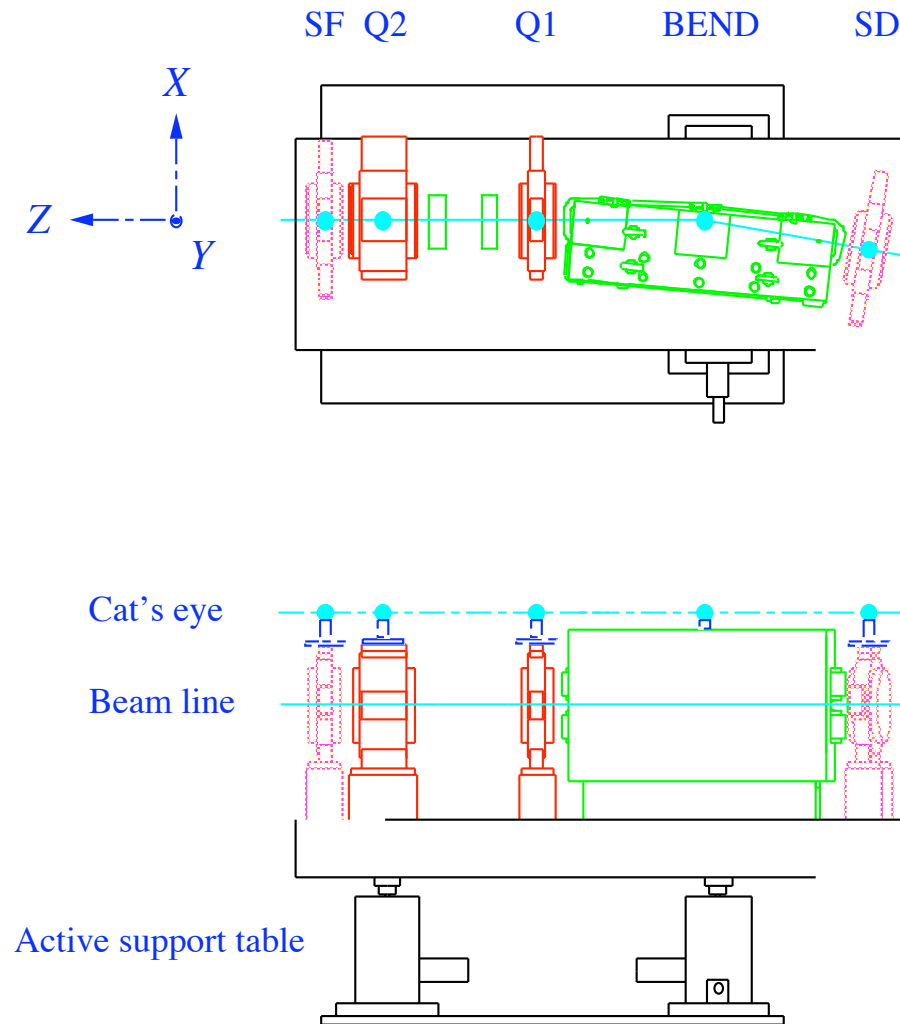
ARC SECTION

STRAIGHT SECTION

DR LEVEL



Magnets on Active Support Table



Alignment works in 2008

FEB **DR SMART survey**

MAR **DR Level survey**

APR **West ARC level correction**

OCT **DR level correction**

NOV **DR level survey, LN level survey**

ALIGNMENT GOAL

$$\Delta_x < 90 \text{ } \mu\text{m} \quad (\text{radial})$$

$$\Delta_y < 60 \text{ } \mu\text{m} \quad (\text{vertical})$$

$$\Delta_\theta < 0.2 \text{ mrad} \quad (\text{rotation})$$

SURVERY TOOLS

SMART (3-d mobile tracking system)

Coordinate accuracy < 10 $\mu\text{m/m}$

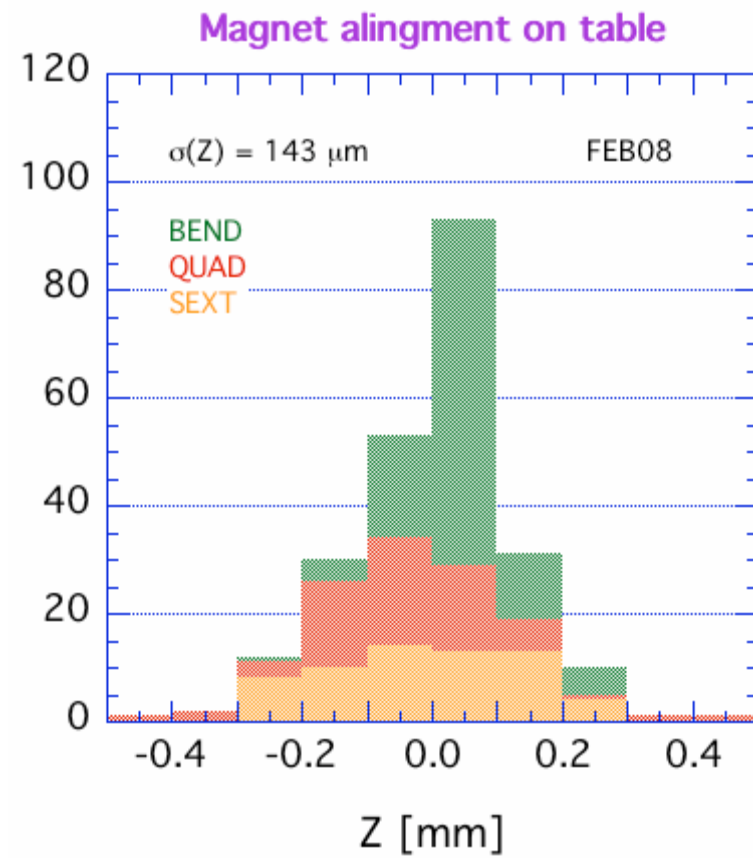
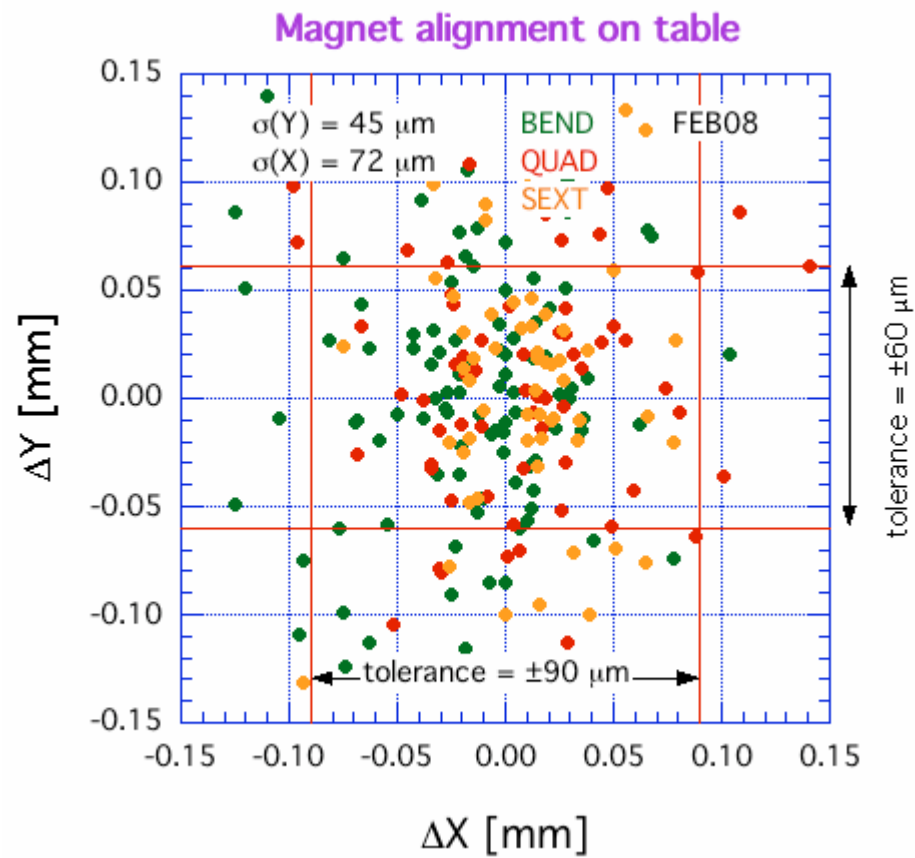
Tilting Level

$$\Delta_y < 30 \text{ } \mu\text{m}$$

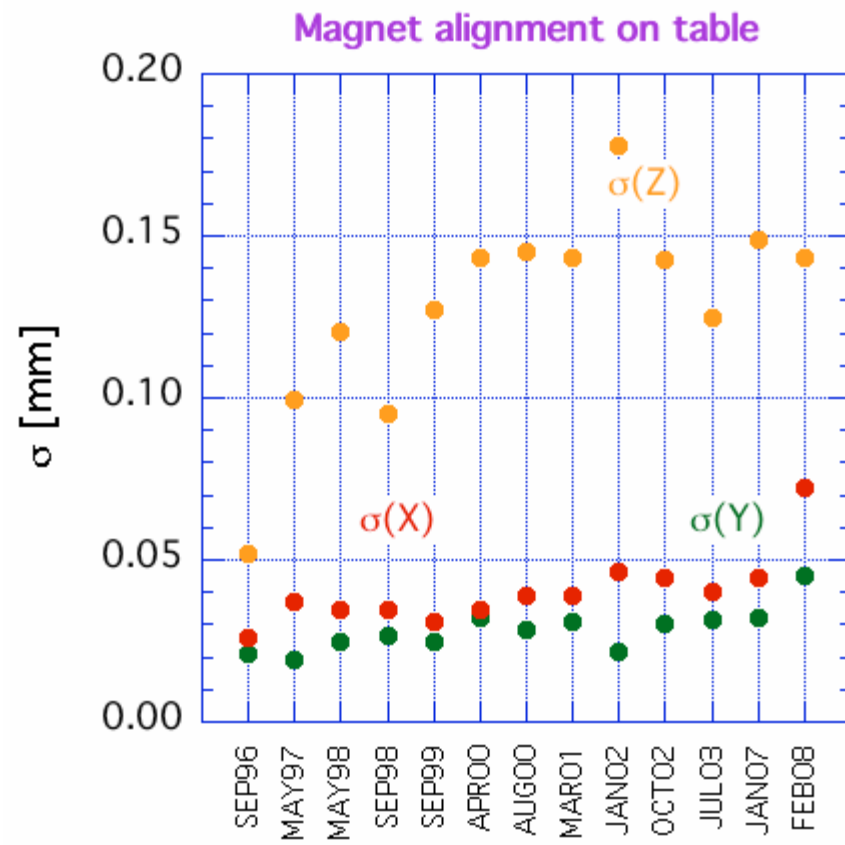
Talyvel 4 (roll/pitch)

$$\Delta_\theta < 5 \text{ } \mu\text{rad}$$

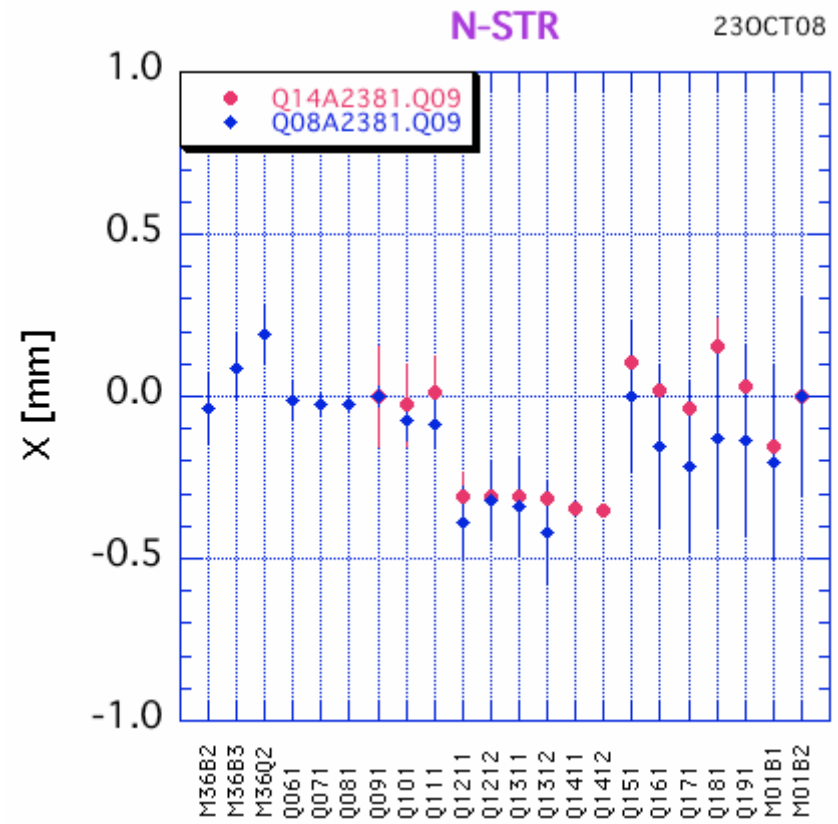
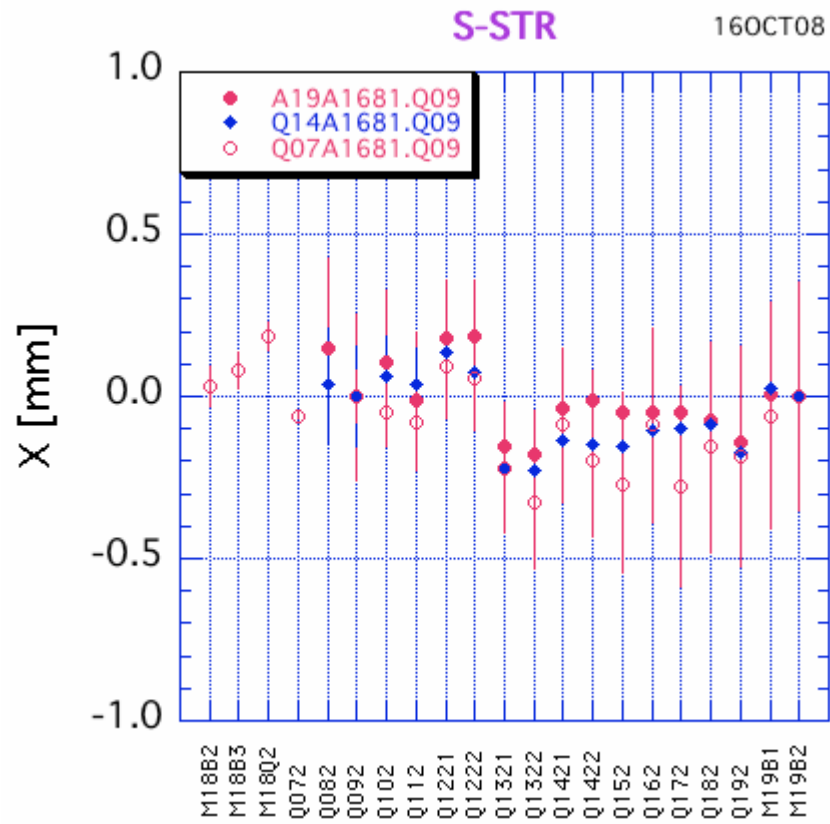
ARC SECTION (FEB08)



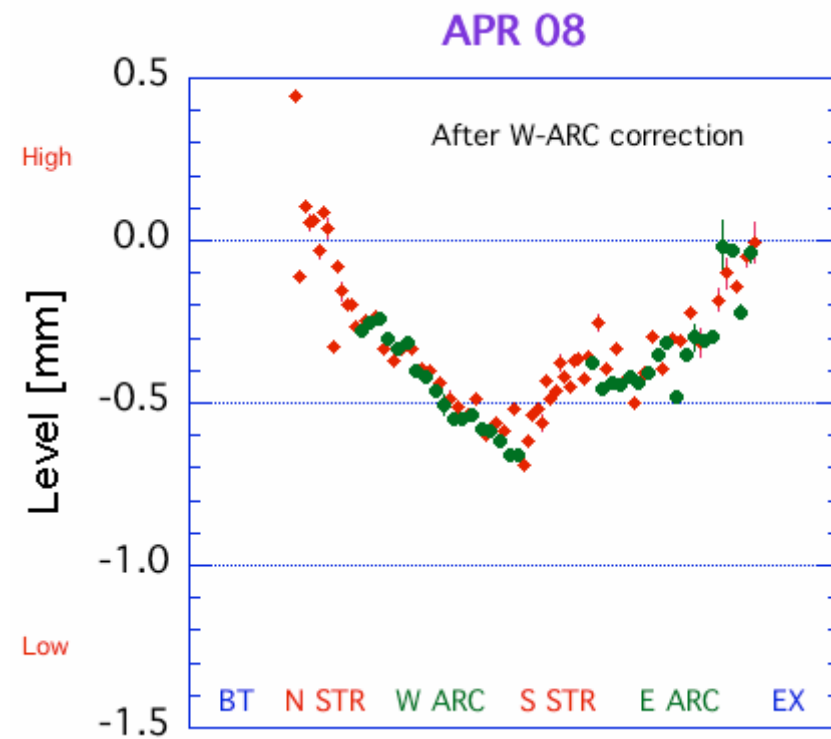
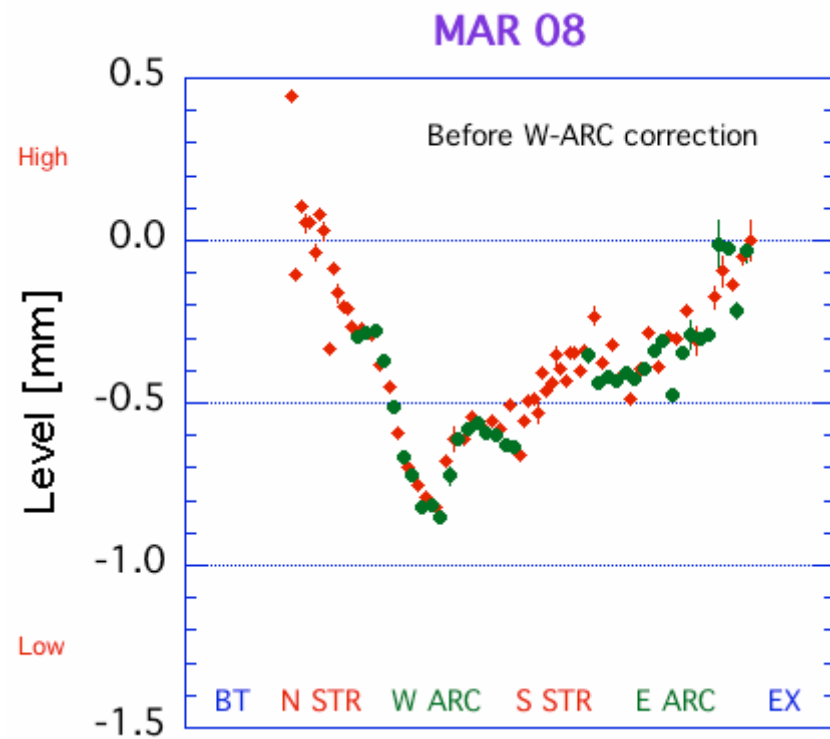
ARC SECTION (FEB08)



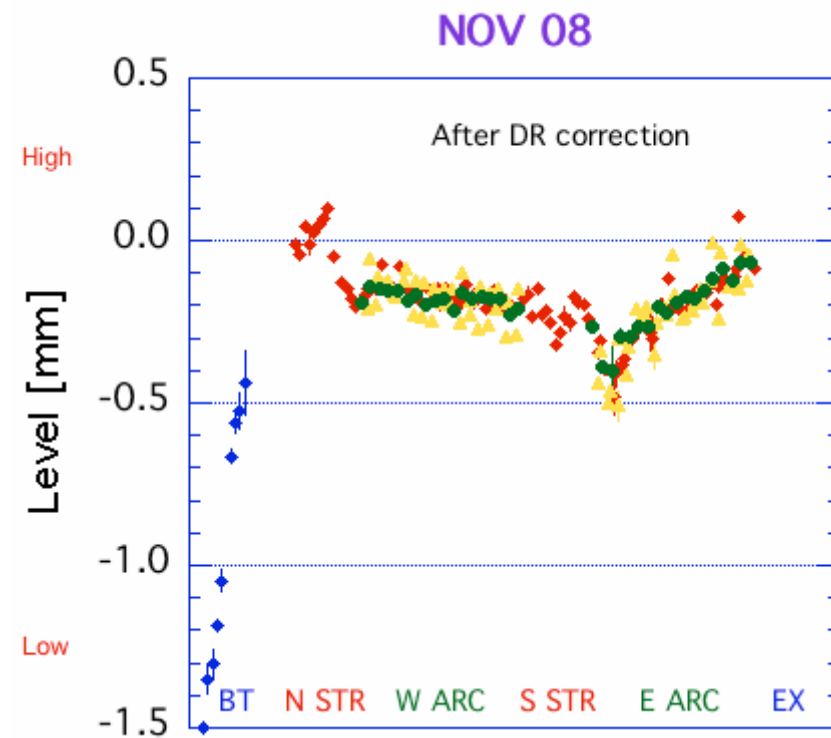
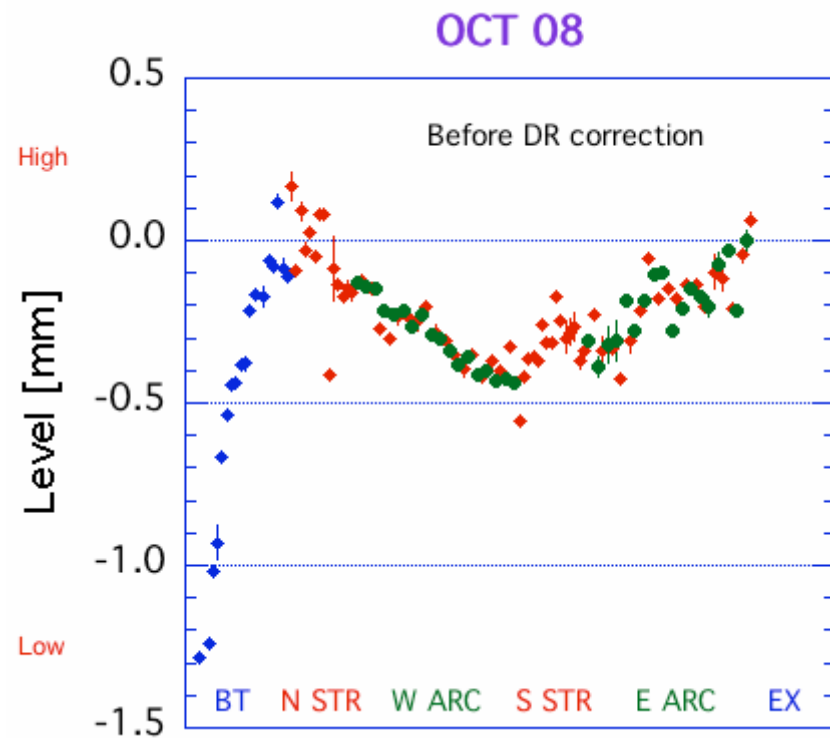
STRAIGHT SECTION (OCT08)



DR LEVEL (MAR08)



DR LEVEL (OCT08)



ATF LEVEL (NOV08)

