

## Summary of Status

Jim Pivarski

15 July, 2010

## Where are we, with regard to track-based/hardware comparisons?

## This is my understanding:

- ► Track-based minus hardware differences show a relative twist (global  $\Delta r \phi$  vs z) and a compression (global  $\Delta z$  vs z) of about the same magnitude, roughly the same in all sectors, all stations
- Present at the level of raw residuals
- Not in segment-to-segment residuals, but not expected
- ► Several chambers appear to be displaced in the global *z* direction in the hardware geometry (discontinuities in residuals)
- $\blacktriangleright$  Link system and inclinometers both find the apparent twist to be 1  $\pm$  small mm between ends of the barrel (track-based sees 4 mm). These are independent of each other and independent of the barrel measurement (track-based is the odd one out)
- ► They depend on alignment ring stability since 2009, but there are some good indications of that
- This is the third week: are we any closer? Is there anything we can do to add new information?