

- Muon alignment, residuals dependence on  $q/p_T$ : expanding initial single-chamber study to all MB1, ME1 chambers, to see if the tracker weak mode discovered by Markus also corrects endcap
  - this is a new set of plots in CommonAlignmentMonitor, turned on/off with a createJobs.py switch
  - implemented, but not yet tested or checked in
  - we'll want to add it to Vadim's monitor
  - target: CMSSW\_3\_6\_X, bundled with Vadim's monitor
- Hardware alignment news: the latest hardware alignment of CRAFT-09 is getting to be high quality, reasonable to start with hardware alignment until we collect a sufficient number of tracks (plots follow)
  - definition of "sufficient" depends on estimated hardware alignment precision and Aysen's precision-to-integrated luminosity relation

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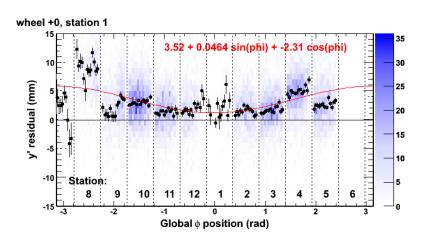
 $A+B\sin\phi+C\cos\phi$  (red curve) is rigid-body translation/rotation: hardware system not expected to get this right (especially now that the Link has been broken) Tracks *must* be used for this part (everyone is in agreement about that)

wheel +0, station 1 6.34 + -1.91 sin(phi) + 0.41 cos(phi) 10 25 x' residual (mm) 20 15 10 -10 Station: 10 11: 12 2 3 5 Global oposition (rad)

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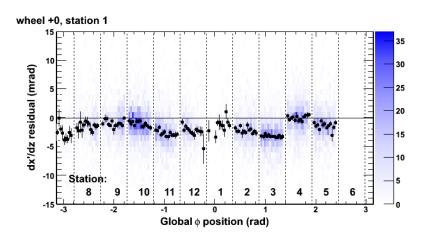




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