Schedule for a new alignment

Target: beginning of November. Which of these are possible in 2 months?

- Endcap disk alignment with collisions muons
  - study of residuals versus momentum (partly done)
  - understand fitter (the differences we see ought to be statistical: what's wrong with the statistics of the fit?)
  - currently waiting for re-processed collisions dataset...
- Chamber alignment with low-momentum cosmics
  - study of residuals versus momentum
  - should add $|p|$-dependence to the fit: Gaussian $\sigma \to \sigma/|p|$
- Chamber alignment with low-momentum collisions
  - need at least $\mathcal{O}(10\ \text{pb}^{-1})$ (not far in the future...)
  - study of low-$|p|$ cosmics residuals vs. low-$|p|$ collisions residuals
  - compare collisions alignment in endcap with beam-halo and disk-shifts: that is, CSC chamber-level alignment ought to agree with the prior geometry within quoted uncertainties
- Understand residuals inside of a chamber: if it's due to trigger bias and trigger bias can only be excluded by asking for a second muon, we'll need *a lot* more data to do a standard alignment