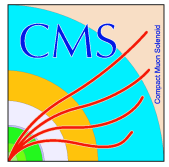
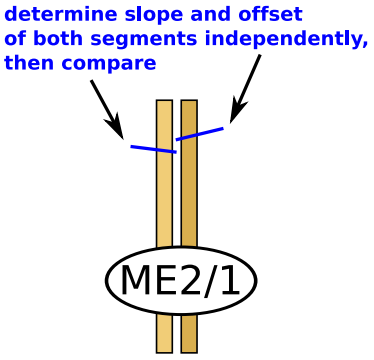
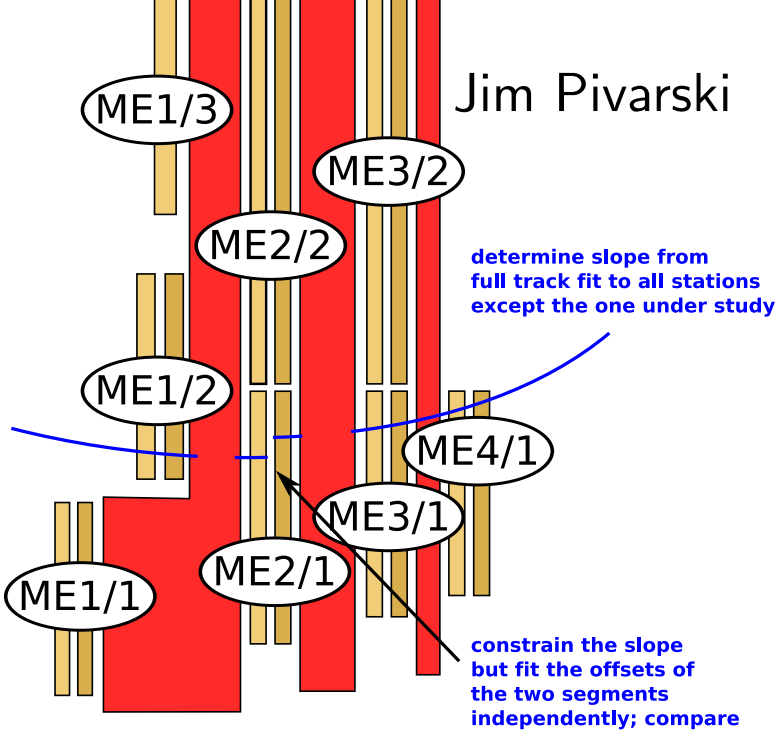
Status of beam-halo alignment



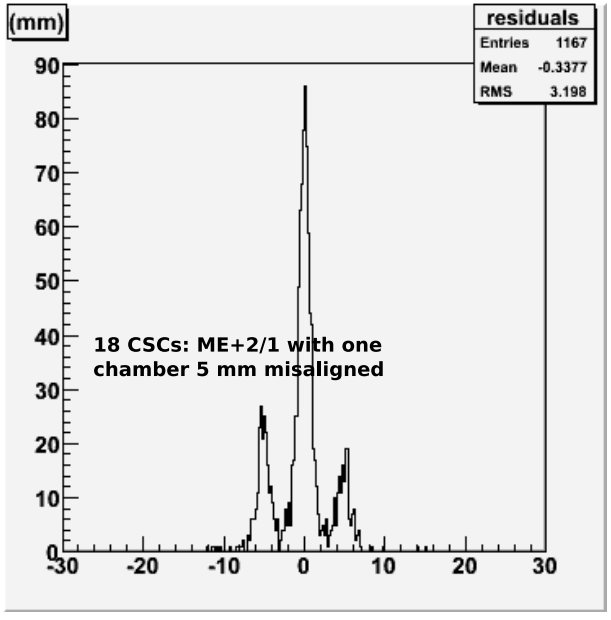
Feature	in old?	in new?
Organized and maintainable	·	yes
Linear track fits ($\phi = A + Bz$) in CSC pair overlaps	yes	yes
Slope (B) constrained to full-fit from all other stations	·	yes
Fiducial chamber-volume cut	hacked	yes
Histograms of everything	yes	yes
Parallel-processing ("gather" and "align" jobs)	·	yes
Customizable fits (allow PG, HW constraints)	·	yes
Combine ME1/1a and b	yes	untested
Error analysis (weak and strong modes)	·	yes
Full-workflow testing and debugging	yes	·
Try Oleg's radius correction	·	·
Documentation	·	·

New fitting feature

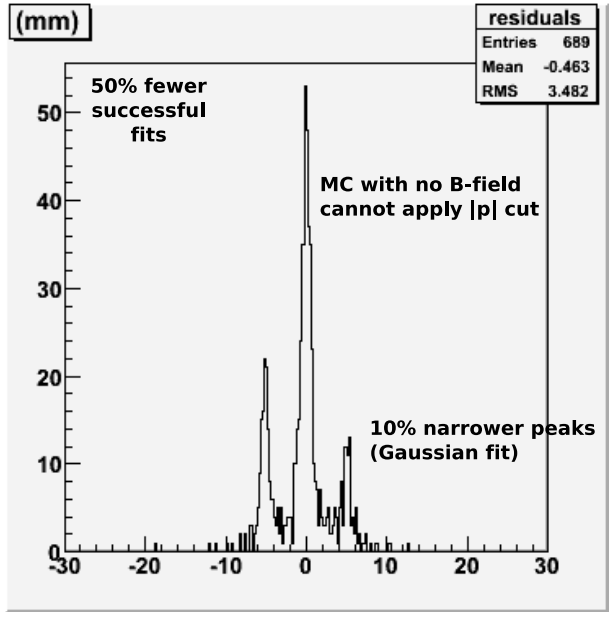




Old fitting method; precision of "offset residuals" limited by slopes



New method can potentially improve resolution; especially with a high |p| cut



Timescale

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26 9 CSC Online Software (Frank 10 Muon DPG [4] (Tim Cox) 10:30 Stopped HSCP WG meet 3:30p Muon meeting	27 9:30 Exotica Meeting (Greg Lar 10 CSC TF Working Meeting	28 9 CMS General Weekly Meeting	29 9:30 Exotica non-resonant sigr	30 9:30 Exotica Photon Working G	May 1
2	3 7 PH-DPG Tracking Meeting (Ke 9 CSC Online Software (Frank 10:30 Stopped HSCP WG meet 3:30p Muon meeting	4 10 CSC TF Working Meeting	5 9 CMS General Weekly Meeting	6	7	8
9	10 9 CSC Online Software (Frank 10:30 Stopped HSCP WG meet 3:30p Muon meeting	11 Beam-halo alignment drop-de 9:30 Exotica Meeting (Greg Lar 10 CSC TF Working Meeting	12 9 CMS General Weekly Meeting	13	14 GlobalMuon alignment sign-of 9:30 Exotica Photon Working G	15
16	17 CMS Physics Week 9 CSC Online Software (Frank 10:30 Stopped HSCP WG meet 3:30p Muon meeting	18 10 CSC TF Working Meeting	19 Drop-dead date for all AlCa 9 CMS General Weekly Meeting	20	21	22
23	24 9 CSC Online Software (Frank 10:30 Stopped HSCP WG meet 3:30p Muon meeting	25 9:30 Exotica Meeting (Greg Lar 10 CSC TF Working Meeting	26 9 CMS General Weekly Meeting	27	28 9:30 Exotica Photon Working G	29
30	31 7 PH-DPG Tracking Meeting (Ke 9 CSC Online Software (Frank 10:30 Stopped HSCP WG meet 3:30p Muon meeting	Jun 1 10 CSC TF Working Meeting	2 9 CMS General Weekly Meeting	3	4	5