ME1/3

ME3/2

ME2/2

determine slope from full track fit to all stations except the one under study

ME1/2

ME4/1

ME3/1

ME2/1

ME1/1

determine slope and offset of both segments independently, then compare

ME2/1

constrain the slope but fit the offsets of the two segments independently; compare
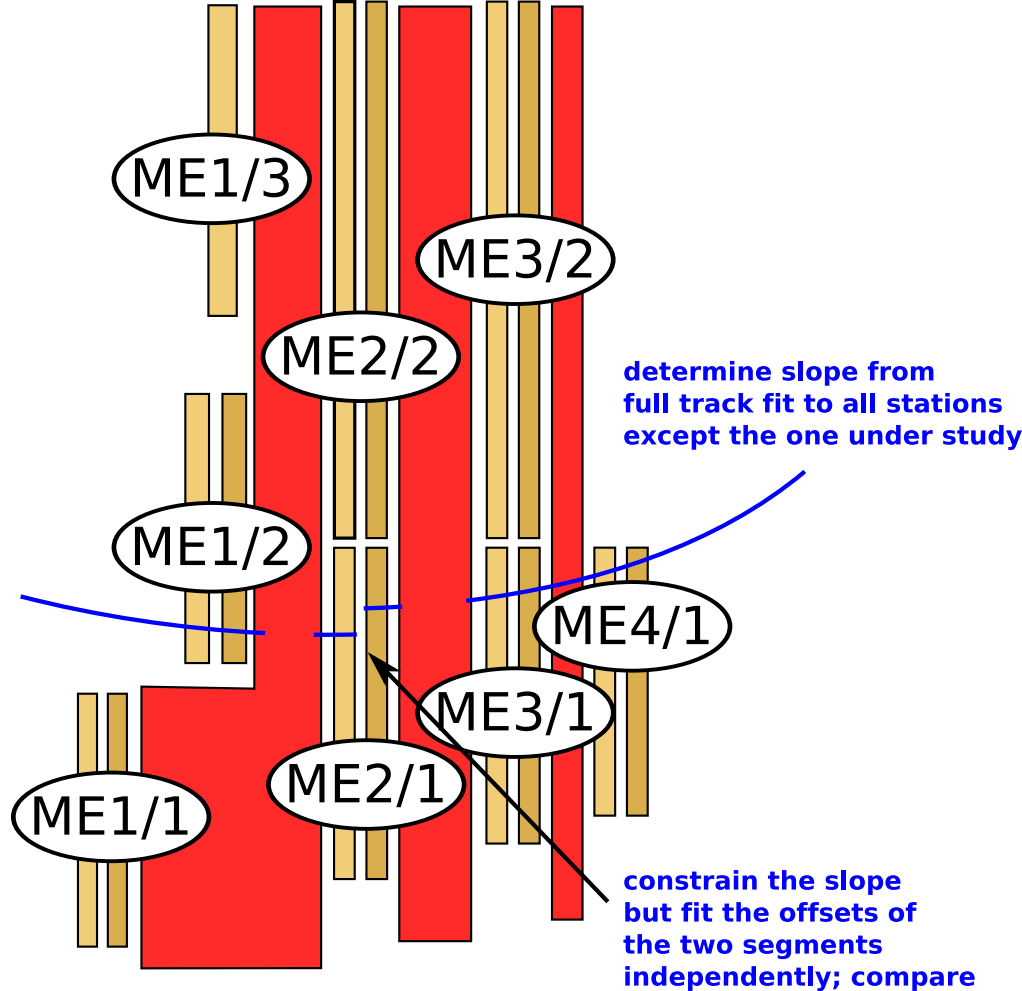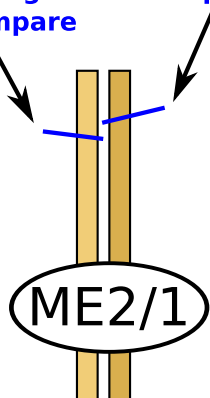
Old fitting method; precision of "offset residuals" limited by slopes

residuals	
Entries	1167
Mean	-0.3377
RMS	3.198

18 CSCs: ME+2/1 with one chamber 5 mm misaligned

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

residuals	
Entries	689
Mean	-0.463
RMS	3.482

50% fewer successful fits

MC with no B-field cannot apply |p| cut

10% narrower peaks (Gaussian fit)