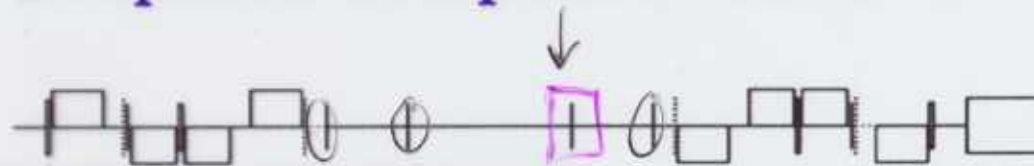
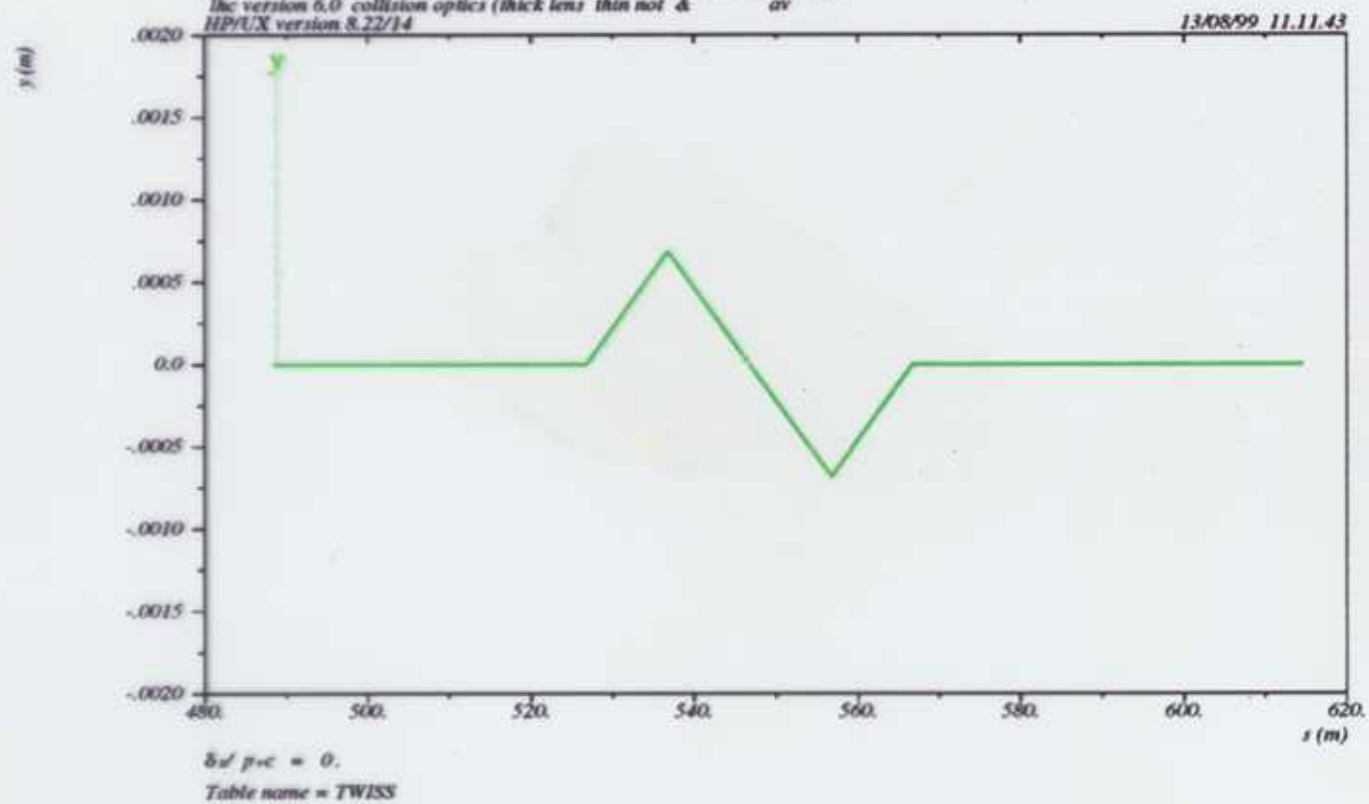


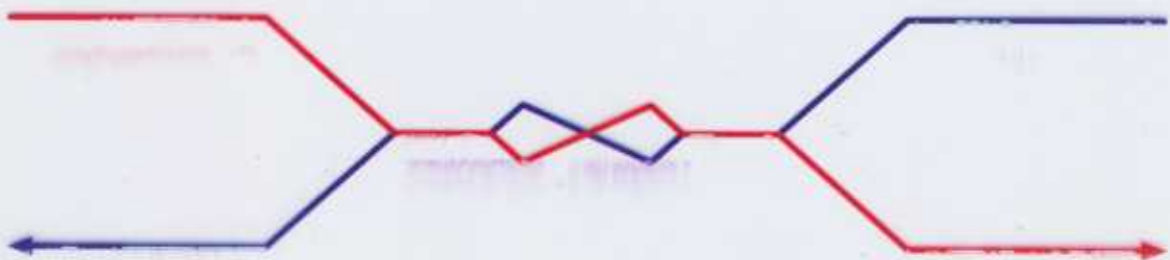
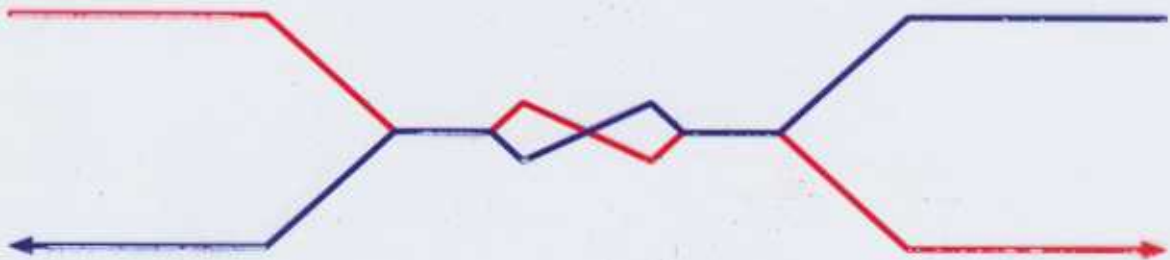
# Proposed compensation in ALICE



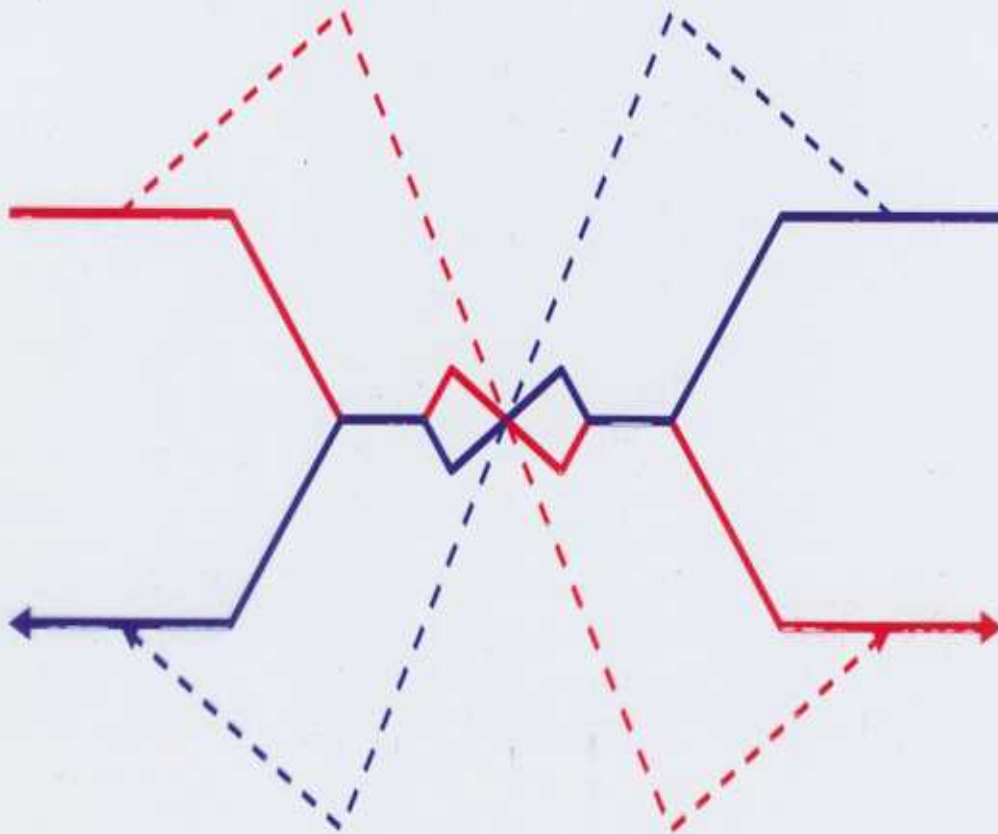
IP2 (ALICE) SPECTROMETER COMPENSATION WITH 3 MAGNETS  
the version 6.0 collision optics (thick lens thin not & av



# Spectrometer polarity (schematic)



## Spectrometer polarity (schematic)

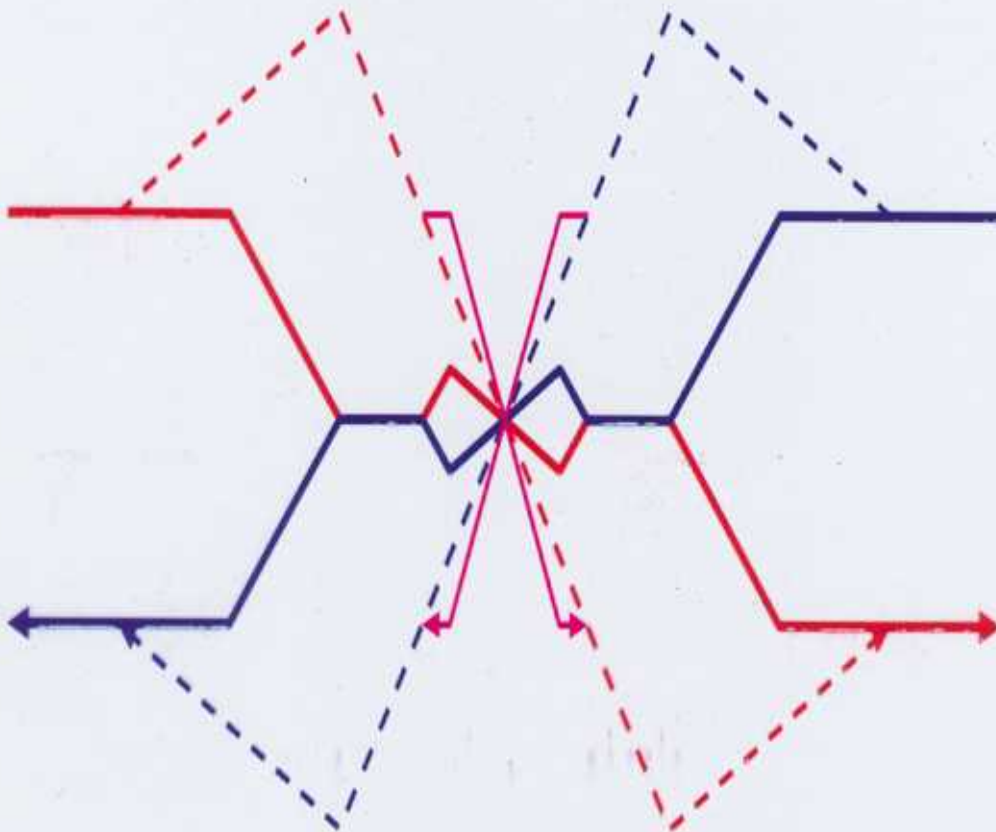


Preferred polarity

Separation angle matches  
spectrometer angle

Dispersion effects cancel (almost)

## Spectrometer polarity (schematic)



Preferred polarity

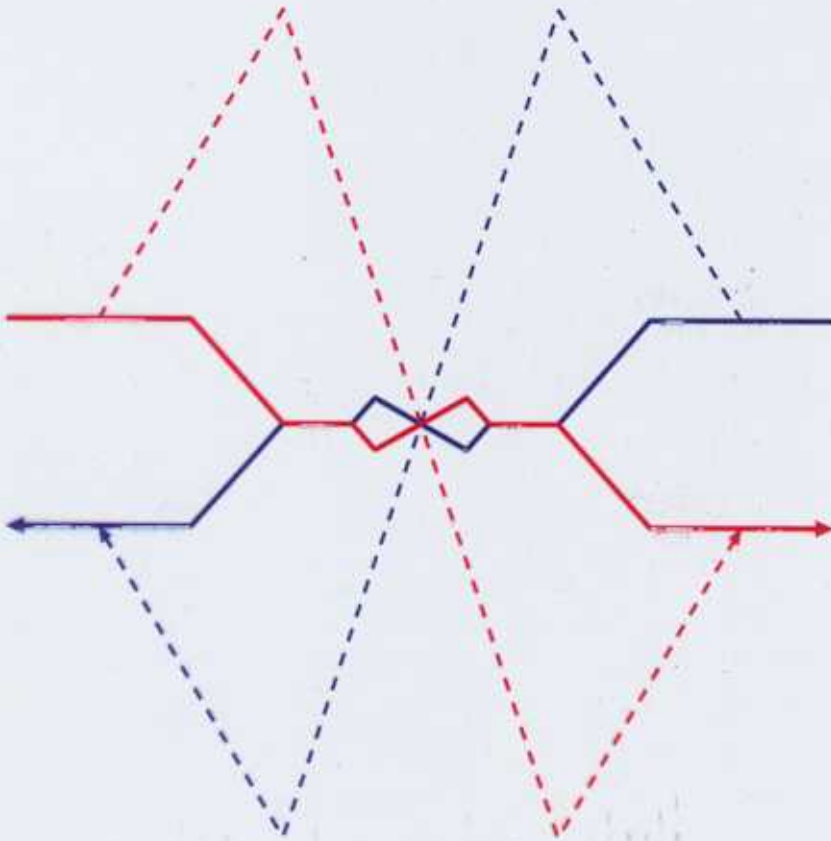
Separation angle matches  
spectrometer angle

Dispersion effects cancel (almost)

Crossing angle becomes **larger** at IP:

$\approx \pm 150 \mu\text{rad}$

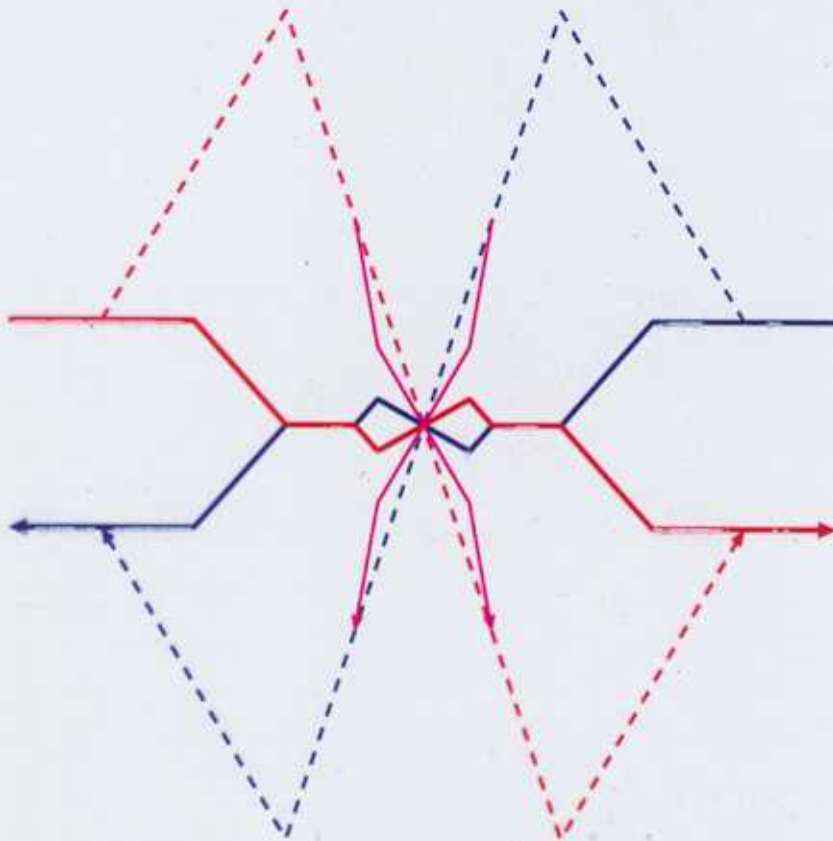
## Spectrometer polarity (schematic)



Not preferred polarity

Overcompensation, large orbit excursion: strengths sufficient

## Spectrometer polarity (schematic)



Not preferred polarity

Overcompensation, large orbit excursion: strengths sufficient

Crossing angle becomes **smaller** at IP:  
 $\approx \pm 100 \mu\text{rad}$