Flow analysis using MRS/FS

H. Ito

4 separate angles: 4, 8(not quite done), 40 and 90 degPion and hopefully Proton (will not be shown)

TFW2 PID

TFW2 is used for PID in MRS

Looks good upto here?



TFW2 Pi-K separation at 90 deg

Would C4 help? What is the regection (or contamination) factor of C4?



Pion selection in MRS by TFW2



Centrality 0-50%?

Spectrometer trigger tends to select more central events. Dividing events in smaller centrality range is ideal. But, there may not be enough events to divide.



v2 from MRS at 90 degree

MRS 90 deg



V2 from MRS at 90 degree

MRS 90 deg

Correction = 0.233-> It is better than 0 - 50% selection

20-50% central



Centrality dependence 90 deg

Red 20-50% Blue 0-50%



TFW2 Pi-K Sepration at 40 deg



V2 at 40 deg



RICH PID



Pion selection in FS by RICH



Cuts are currently done by RICH MASS. It will be changed to difference from the theoretical line.

V2 at 4 deg



Things to do

•To increase statistics for low Pt, use H1 + C1

- What is the regection factor in C1?
- •To increase PID range in MRS, use C4
 - What is the regection factor in C4?
- •See how Proton is doing?
- •See how Kaon is doing?

•Theoretical prediction ---> Punch line?

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