# Tracking Pseudo Efficiency in SP8

#### Data and MC Low pT dependence comparison.

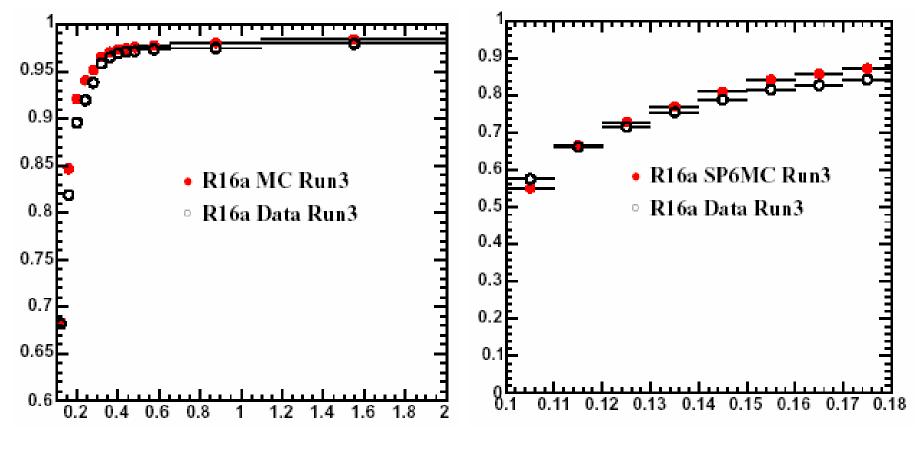
# Tracking Pseudo-Efficiency

Definition of pseudo-efficiency.

 $e = \frac{nGTL}{nGTVL}$ 

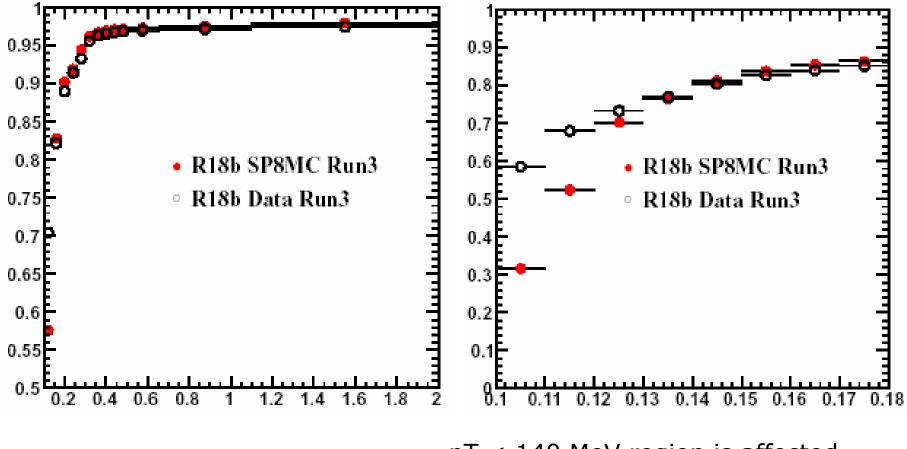
- GTVL (GoodTracksVeryLoose) does not require DCH hits.
- GTL (GoodTracksLoose) require 12 DCH hits.
- Reflect the efficiency of SVT+DCH
- Can measure pT, theta, phi and multiplicity dependence.
- Today's focus = low pT dependence.

# SP5/SP6 Run3 (R16b skim)



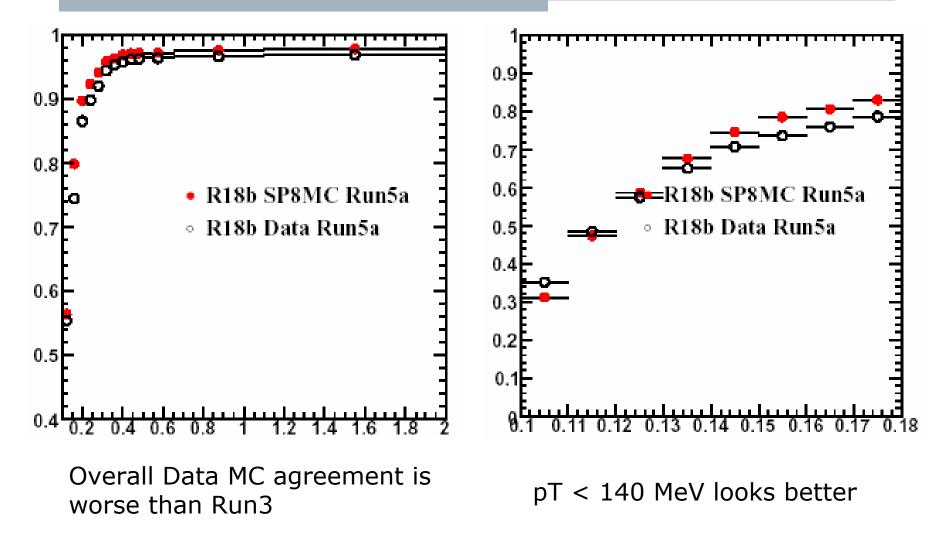
Good Data MC agreement

### SP8 Run3 with G4 bug (R18b skim)



pT < 140 MeV region is affected

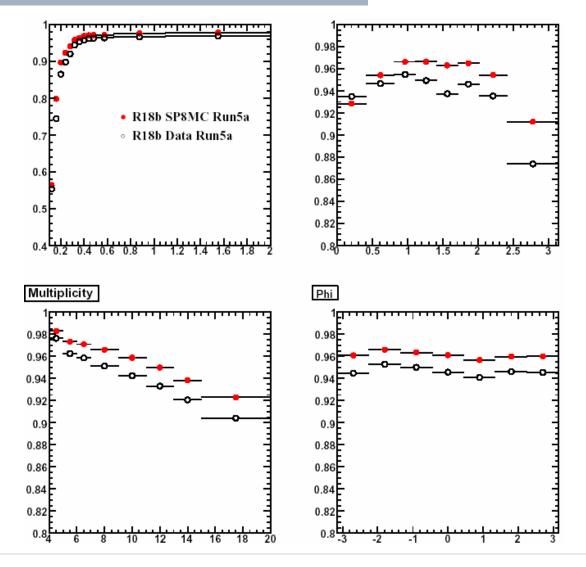
### SP8 Run5 : no G4 bug (R18b skim)



# Summary

- After G4 bug fix, data MC agreement is better.
- Need bug fixed Run3 MC to confirm.
- Release 19.4.1 MC is not ready.

## Back up slide



02/25/2006