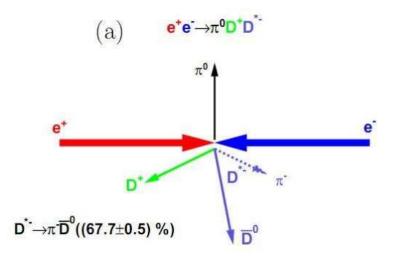
Introduction of my previous works

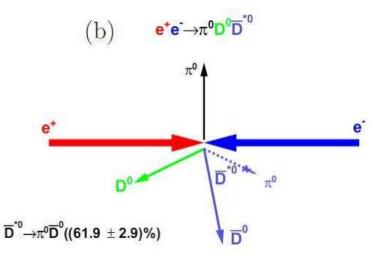
Liu Kai 2017.9.29

Outline

- What I did before
 - Physics analysis
 - Software services
- Personal skills and interests

Neutral Zc study





Neutral Zc study

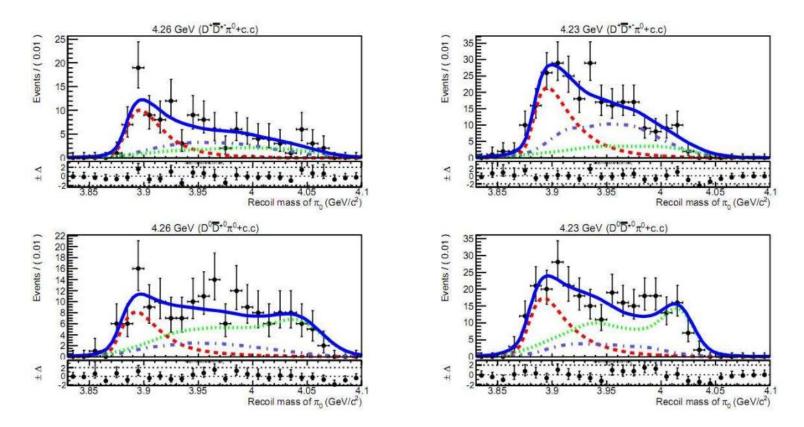
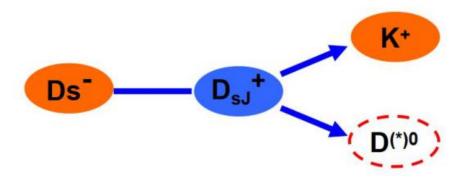
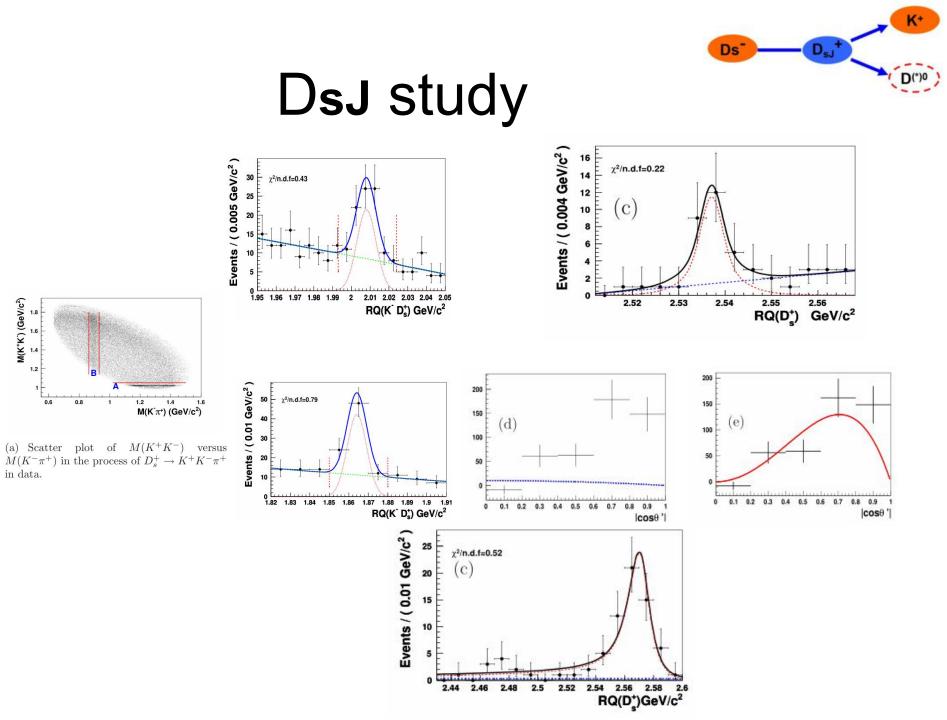


Figure 4.14 Simultaneous fit. The left two plots are data at 4.26 GeV and the right two plots are at 4.23 GeV; the top plots belongs to $D^+D^{*-}\pi^{\pi^0}$, and the bottom two belongs to $D^0\overline{D}^{*0}\pi^0$ process.

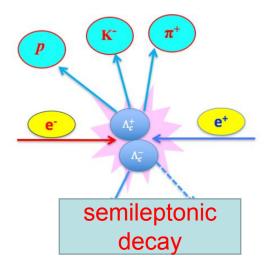
D_sJ study

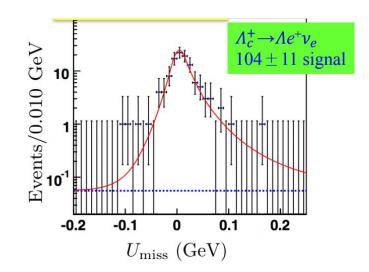
partial reconstruction method



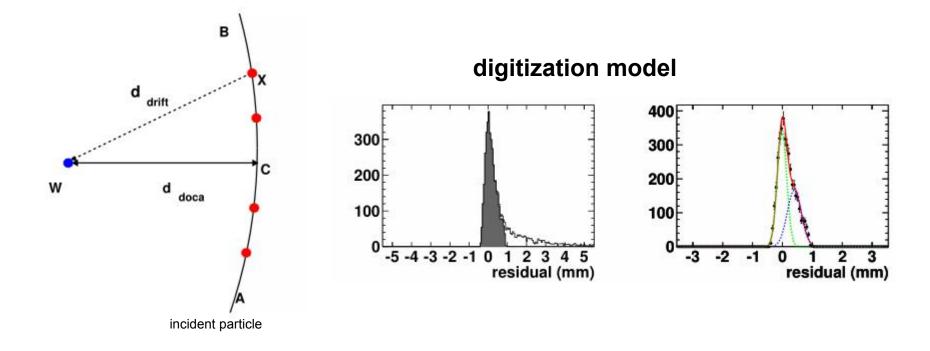


Lambda_c study

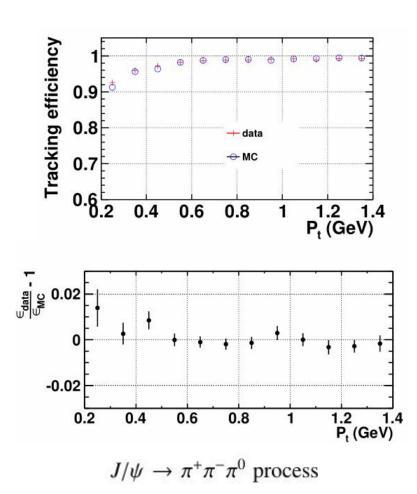




MDC T-channel simulation tunning



Performance



Comparison of momentum resolutions between two models.

	Previous/MeV	New/MeV
σ_{data}	7.827 ± 0.013	7.827 ± 0.013
σ_{MC}	7.097 ± 0.011	7.639 ± 0.035
$rac{\sigma_{MC}}{\sigma_{data}} - 1(\%)$	-9.33 ± 0.21	-2.40 ± 0.48

Contributions in these works

Neutral Zc study:

- event selection & optimization
- some systematic uncertainties
- fitting
- help with replying referee's questions
- DsJ study:
 - whole process
- Lambda_c semileptonic study
 - event selection
 - generating samples
 - some cross checks

MDC tunning

- two papers published
- paper1:
 - diff. on tracking eff. reached 1% level;
 - published by me, but started and also a lot of studies did by another contributor.
- paper2
 - diff. on tracking eff. reached 0.5% level
 - agreement on momentum distribution improves a lot
- another work
 - further improved model in paper2.
 - a lot of man power could be saved

Personal skills and interests

- Physics analysis
- MDC softwares
 - Geant4, etc.

- Programming

 python, Cpp, shell
- Playing with Linux
- web
 - building website and related techniques:

THAN

- PHP, HTML, CSS,
- MySQL(not expert)
- JavaScript(not expert)