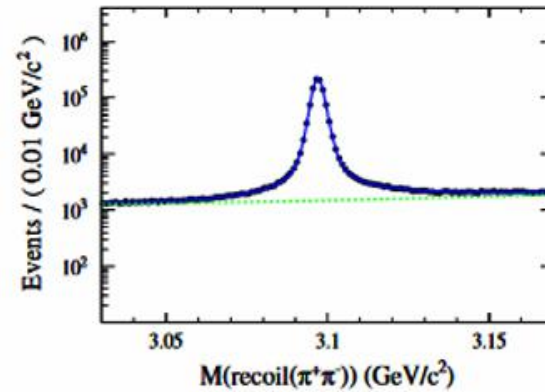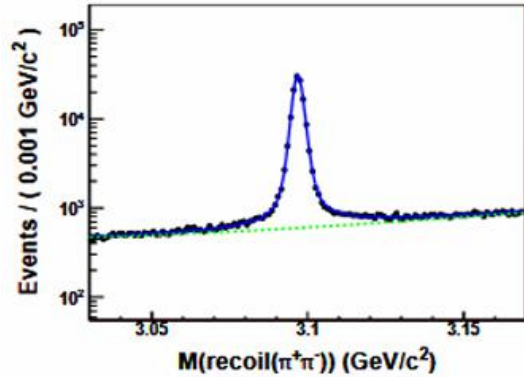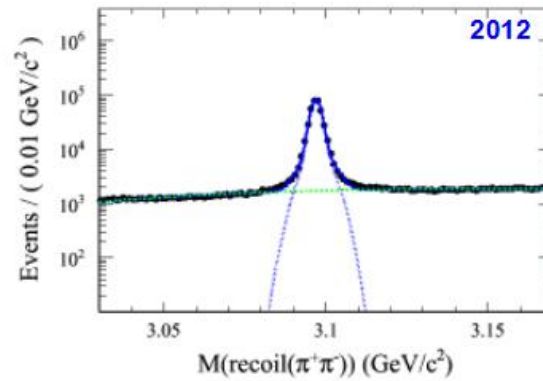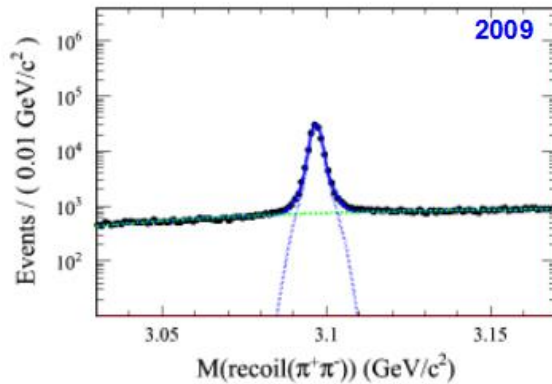# Weekly report

Summary

- **Jpsi -> inv.**

  – receive suggestions from Liu Fang (chair)

  – suyu did well in checking the fits with double-gaussian function.

- **Chic -> gam lepton lepton**

  – amit repeated the previous results.

- **ChicJ --> Sigma p Ks**

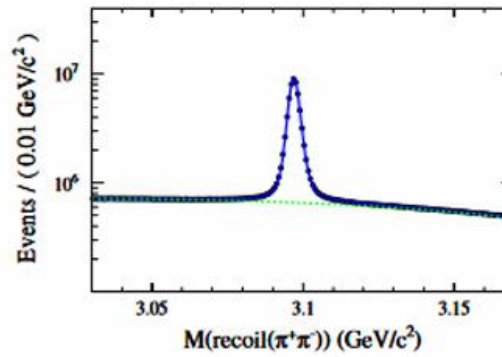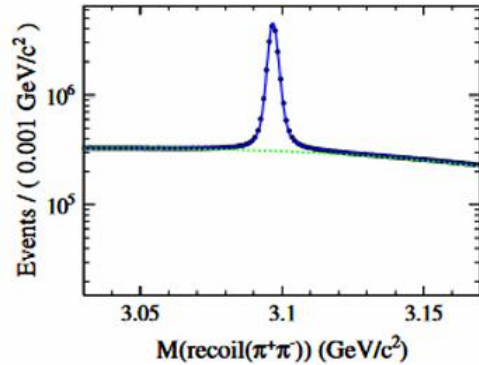 – shan updated the memo, studied some sources of systematic uncertainties
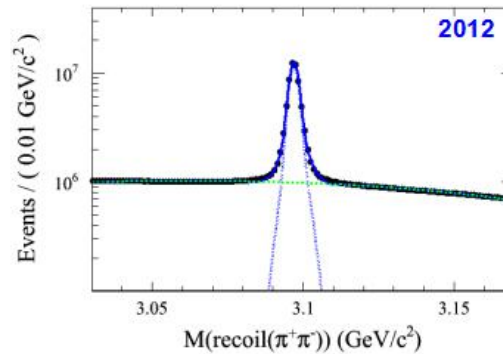
Suyu (1)

Jpsi -> invisible:

Items	Bkg		Gaussian				%	N		EDM
	c0	c1	mean	mean1	sigma	sigma1	sigfrac	nbkg	nsig	
2009	3.200e+01	-6.550e-02	3.097	3.097	1.454e-03	3.596e-03	7.521e-01	9.977e+04	1.265e+05	5.518e-05
2012	2.504e+01	-8.776e-02	3.097	3.097	1.546e-03	4.099e-03	7.690e-01	2.306e+05	3.687e+05	1.555e-05

12/09: 2.31 2.91

1

suyu (2)

Jpsi -> anything:
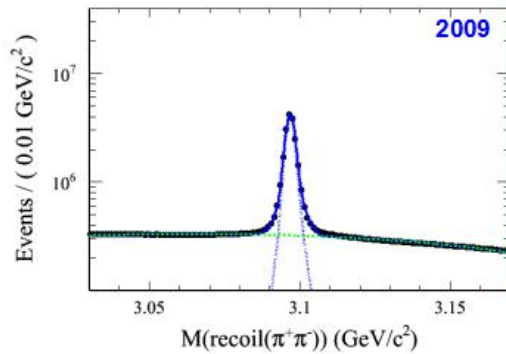
Items	Bkg		Gaussian				%	N		EDM
	c0	c1	mean	mean1	sigma	sigma1	sigfrac	nbkg	nsig	
2009	-1.643e+01	-8.162e-02	3.097	3.097	1.475e-03	3.570e-03	7.178e-01	4.255e+07	1.723e+07	2.799e-05
2012	-1.779e+01	-7.925e-02	3.097	3.097	1.540e-03	3.681e-03	7.135e-01	1.306e+08	5.377e+07	3.685e-04

12/09: **3.07** **3.12**

shan

update the memo

- plots updating
- systematic uncertianties stem from tracking and PID for p/pi

Kai

- prepare JC report
- ATLAS-chinese group home page

Amit

- I have repeated the simulation, reconstruction and preselection again for signal MC sample for 100 events.
- I was missing some information which I had done previously witht he help of Suyu and Maoqiang.
- Last week I generated this plot for charged track information.
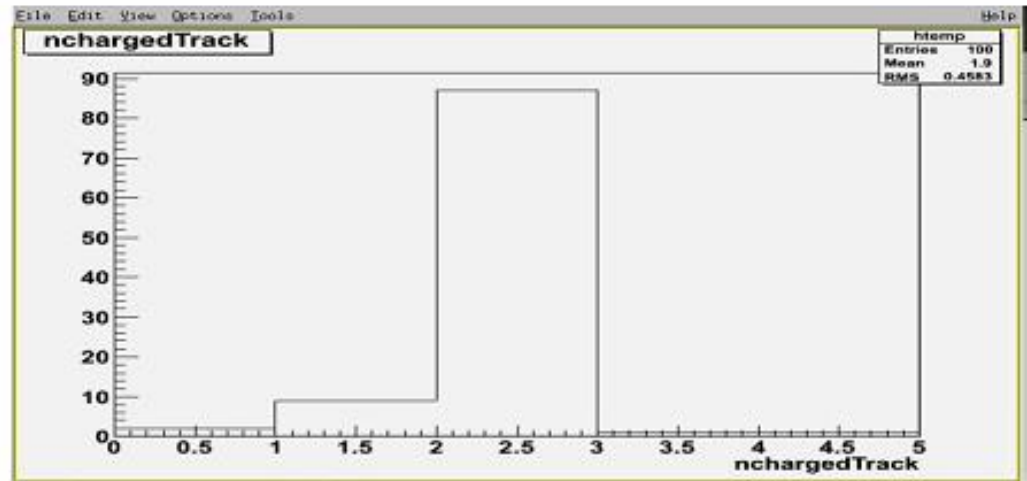
- But when I was submitting the job again on the monday it was showing some error and I was not able to figure out the error so I decided to do this again without any help and I did correctly now.
- I wasted whole week for this and I will do my best in this week to cover my time for the last week.

backup suyu

Items	Bkg		Gaussian				%	N		EDM
	c0	c1	mean	mean1	sigma	sigma1	sigfrac	nbkg	nsig	
2009 invi	3.200e+01	-6.550e-02	3.097	3.097	1.454e-03	3.596e-03	7.521e-01	9.977e+04	1.265e+05	5.518e-05
	3.201e+01	5.628e-02						8.827e+04	1.380e+05	5.148e-05
								13.03%	8.33%	
2012 invi	2.504e+01	-8.776e-02	3.097	3.097	1.546e-03	4.099e-03	7.690e-01	2.306e+05	3.687e+05	1.555e-05
	2.409e+01	3.666e-02						2.017e+05	3.976e+05	3.829e-05
								14.33%	7.27%	
2009 incl	-1.643e+01	-8.162e-02	3.097	3.097	1.475e-03	3.570e-03	7.178e-01	4.255e+07	1.723e+07	2.799e-05
	-1.769e+01	-5.020e-02						4.113e+07	1.866e+07	3.751e-07
								3.45%	7.66%	
2012 incl	-1.779e+01	-7.925e-02	3.097	3.097	1.540e-03	3.681e-03	7.135e-01	1.306e+08	5.377e+07	3.685e-04
	-1.902e+01	-4.982e-02						1.264e+08	5.790e+07	2.972e-06
								3.32%	7.13%	

double gaussian fit   ## Jpsi->ee shape fit   ## uncertainty for fit method

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