group meeting report

weekly summary

- **Jpsi Inv.**
  - Suyu discussed with Zhu Kai about the simultaneous fit.

- **ChicJ to gam lepton lepton**
  - fixed bug of last week, now could get distributions with correct number of candidates

- **Etac Inv.**
  - preSelection done, data samples have been run.
  - a quick and rough study on selection, distributions and backgrounds has been performed.

Xiao Suyu

J/psi->invisible

       Zhu Kai suggests we can deal with 2009 & 2012 data set together, instead of simultaneous fit.

       We can also use simultaneous fit by requiring number of events as a same parameter(taking place of sigma in usual simultaneous fit).
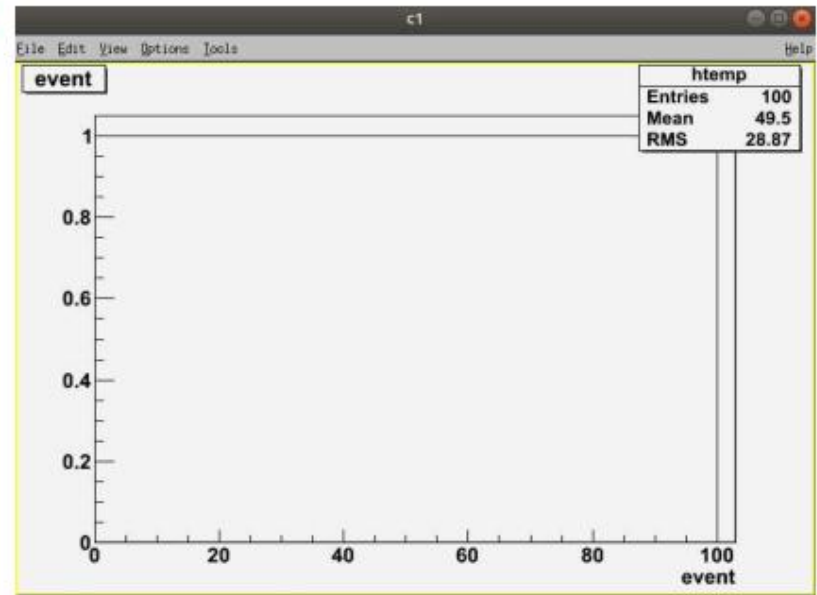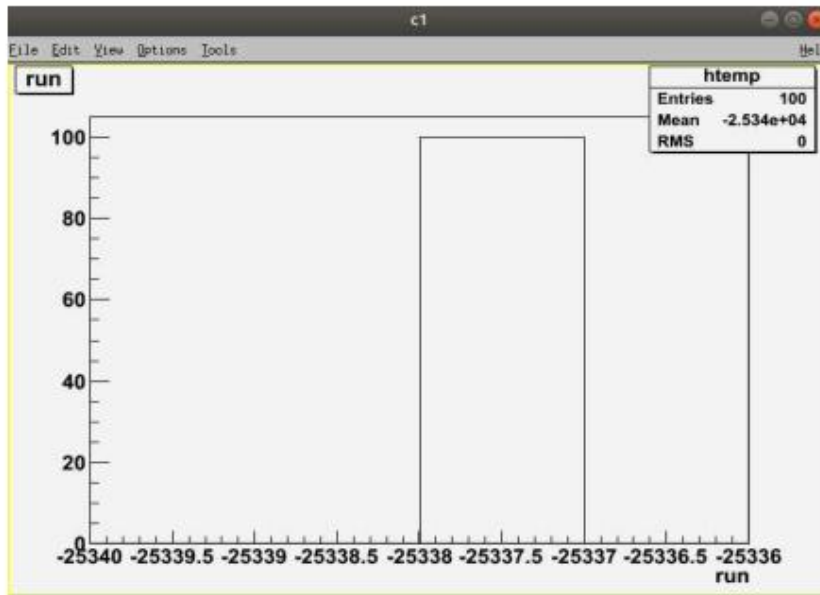
Fast-Electronics & Detector Summer School

       From Tuesday.

Sorry for little updates.

Amit

1. I have corrrected my analysis for the root file generation for 100 MC Samples to generate event number and run number.
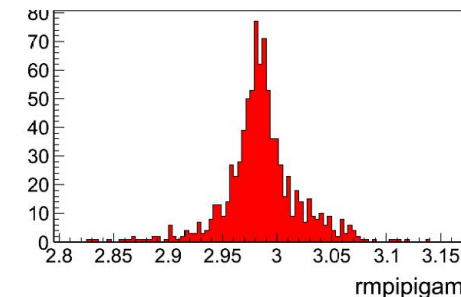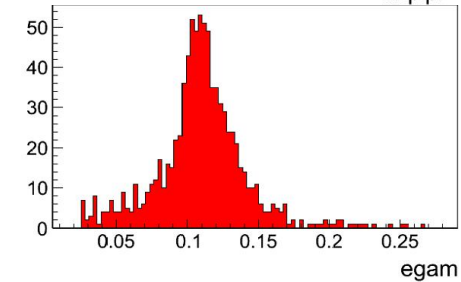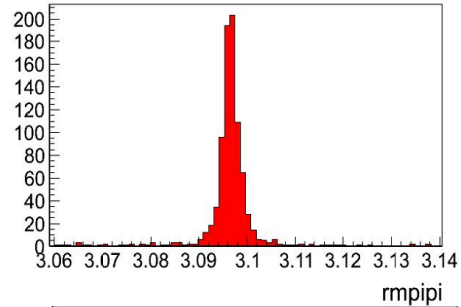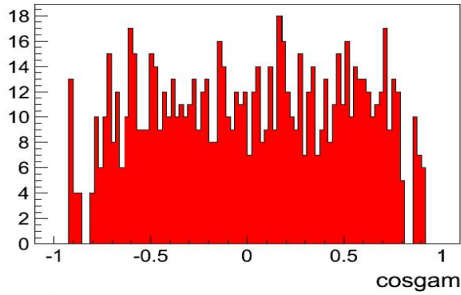

2. I have also done the X-Team webpage Update.

3. Further I am reading BESIII document to understand the detector and analysis of BESIII. For this week I have done this so far and I am sorry for this slow work of this week.

4. Next week I will be able to show my plots for the selection code.

Liu Kai

EtacInv. decay
- preSelection done; run data sample: 12data, 12incl, signalMC ; some distributions and selections
- red: signal;   blue: real data;   green: incl
- plan
  - cut and background level study
  - one script for each plot or cut

No.	decay chain	final states	iTopology	nEvt	nTot
0	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \mu^+\mu^-$	$\mu^+\pi^-\mu^-\pi^+$	1	1480	1480
1	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to e^+e^-$	$e^+\pi^-e^-\pi^+$	2	966	2446
2	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to e^+e^-\gamma_{FSR}$	$e^+\pi^-e^-\pi^+$	6	340	2786
3	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \mu^+\mu^-\gamma_{FSR}$	$\mu^+\pi^-\mu^-\pi^+$	3	317	3103
4	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to n\bar{n}$	$\pi^-\bar{n}\pi^+n$	11	145	3248
5	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to e^+e^-\gamma_{FSR}\gamma_{FSR}$	$e^+\pi^-e^-\pi^+$	7	78	3326
6	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to p\bar{p}$	$\pi^-\bar{p}\pi^+p$	4	36	3362
7	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \pi^0\bar{n}n$	$\pi^-\bar{n}\pi^0\pi^+n$	8	20	3382
8	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \rho^-\pi^+, \rho^- \to \pi^-\pi^0$	$\pi^-\pi^-\pi^0\pi^+\pi^+$	23	17	3399
9	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \gamma\eta, \eta \to \gamma\gamma$	$\pi^-\pi^+\gamma\gamma\gamma$	13	16	3415
10	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \mu^+\mu^-\gamma_{FSR}\gamma_{FSR}$	$\mu^+\pi^-\mu^-\pi^+$	18	13	3428
11	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to n\bar{n}\eta, \eta \to \gamma\gamma$	$\pi^-\bar{n}\pi^+n\gamma\gamma$	9	11	3439
12	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \rho^+\pi^-, \rho^+ \to \pi^+\pi^0$	$\pi^-\pi^-\pi^0\pi^+\pi^+$	5	9	3448
13	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \Lambda\bar{\Lambda}, \Lambda \to p\pi^-, \bar{\Lambda} \to \bar{n}\pi^0$	$\pi^-\pi^-\bar{n}\pi^0\pi^+p$	0	8	3456
14	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \bar{K}^*K^0, \bar{K}^* \to \bar{K}^0\pi^0$	$\pi^-\pi^0K_LK_L\pi^+$	10	5	3461
15	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to K^{*-}K^+, K^{*-} \to \bar{K}^0\pi^-$	$\pi^-\pi^-K_L\pi^+K^+$	39	5	3466
16	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to p\bar{p}\pi^0$	$\pi^-\bar{p}\pi^0\pi^+p$	44	5	3471
17	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \Lambda\bar{\Lambda}, \Lambda \to n\pi^0, \bar{\Lambda} \to \bar{p}\pi^+$	$\pi^-\bar{p}\pi^0\pi^+\pi^+n$	48	5	3476
18	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \gamma\eta, \eta \to \pi^-\pi^+\pi^0$	$\pi^-\pi^-\pi^0\pi^+\pi^+\gamma$	33	4	3480
19	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \gamma\eta', \eta' \to \pi^+\pi^-\eta, \eta \to \gamma\gamma$	$\pi^-\pi^-\pi^+\pi^+\gamma\gamma\gamma$	22	4	3484
20	$\psi' \to J/\psi\pi^+\pi^-, J/\psi \to \gamma\eta_c, \eta_c \to p\bar{p}$	$\pi^-\bar{p}\pi^+\gamma p$	26	4	3488