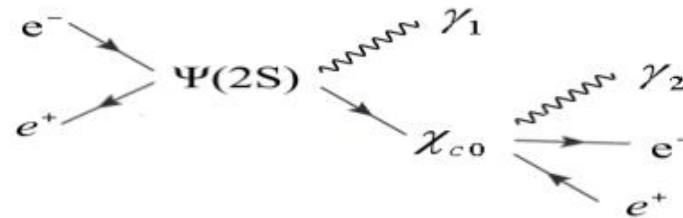# group meeting report

weekly summary

- **DsJ analysis**
  - more questions received, which are about detailed technique and more time consuming to answer
  - almost done, hope finish today.
- **ChicJ to gam inv.**
  - Suyu give a feedback report on New Physics Group Meeting.
  - more comments collected
- **ChicJ to gam lepton lepton**
  - Amit did good job in preSelection Algorithm writing.
  - get first plots from preSelection, run number and event number saved.
- **Jpsi inv. decay**
  - tried simultaneous fit
  - updated memo
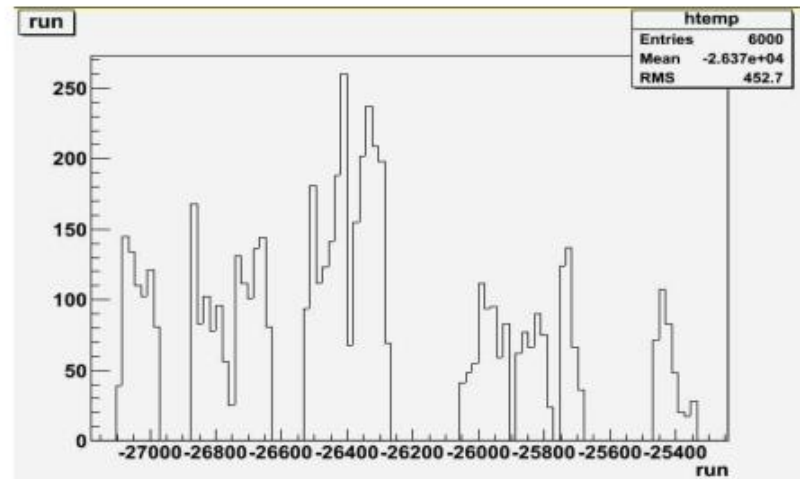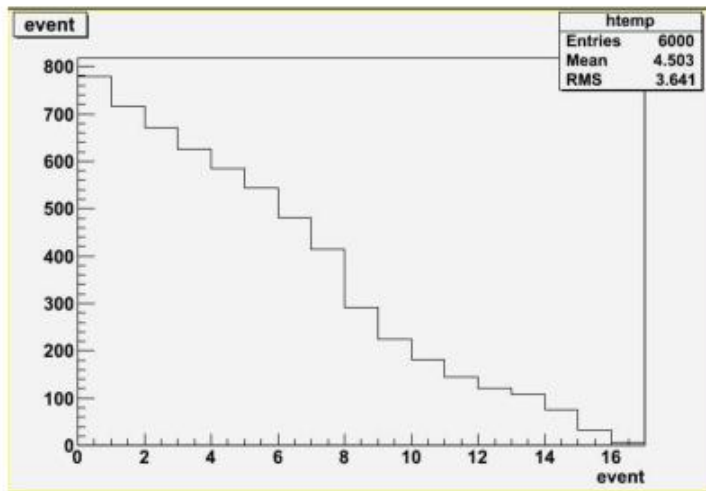
To do next week

- **Jpsi to inv.**
  - study on how to combine results from two data sets.
  - try more on simultaneous fit
- **ChicJ to gam inv.**
  - answer some questions if neccessary
- **ChicJ to gam lepton lepton**
  - write preSelection algorithm
  - add some basic cuts
  - save more variables

Amit

• I have started the analysis for

$$e^- \searrow \atop e^+ \nearrow \quad \Psi(2S) \,\rightsquigarrow\, \gamma_1 \quad \searrow \atop \chi_{c0} \,\rightsquigarrow\, \gamma_2 \quad \rightarrow e^- \atop \nwarrow e^+$$

• I have done the preselction for the 100 event MC Samples for chic0-> e+e-

• I have extracted the run number and event number for 100 MC Samples and stored in root file.

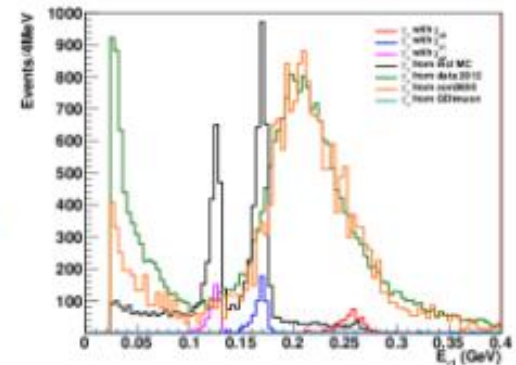• For next week I will write my selection code for these 100 events for chic0->e+e-.

Suyu

J/psi->invisible

- Simultaneous fit
    - Since we use shape of J/psi->ee(instead of Gaussian function) to fit, it seems less reasonable if we fit 09&12 data using 1 certain J/psi->ee.
    - ➤ Xin suggests to use combined J/psi->ee to fit.

- Memo V2.0
    - Description for mumu channel has been finished.
    - ➤ Memo is prepared to open to referees.

Chi_c->gam+invisible

- Give feedback for Collaboration Meeting in June on NPG Meeting
    - Background can be largely suppressed by veto trigger channel.
    - But it seems all survived events are background.
    - ➤ Dayong suggests to find Cao Guofu for help. Generate inclusive & signal MC samples with trigger channel information.

Kai

- ## DsJ analysis
  - answer questions
- ## ChicJ to gam inv.
  - With MDC hit information, try to remove background from showers produced by charged background particles.