



中国科学技术大学

University of Science and Technology of China

Group meeting

Yuan Zhang

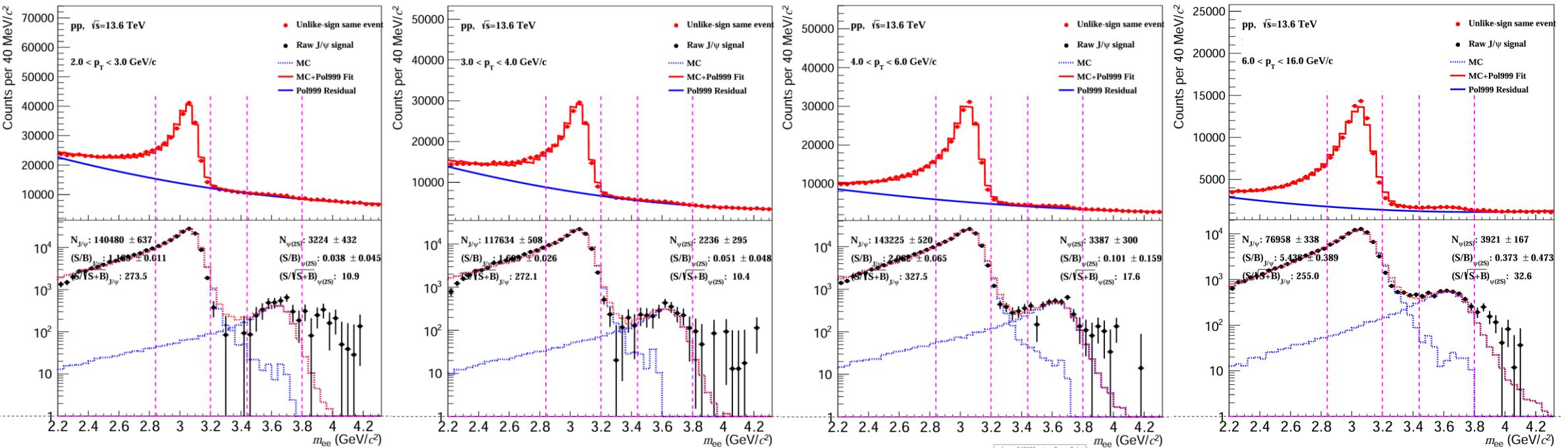
2024/09/10

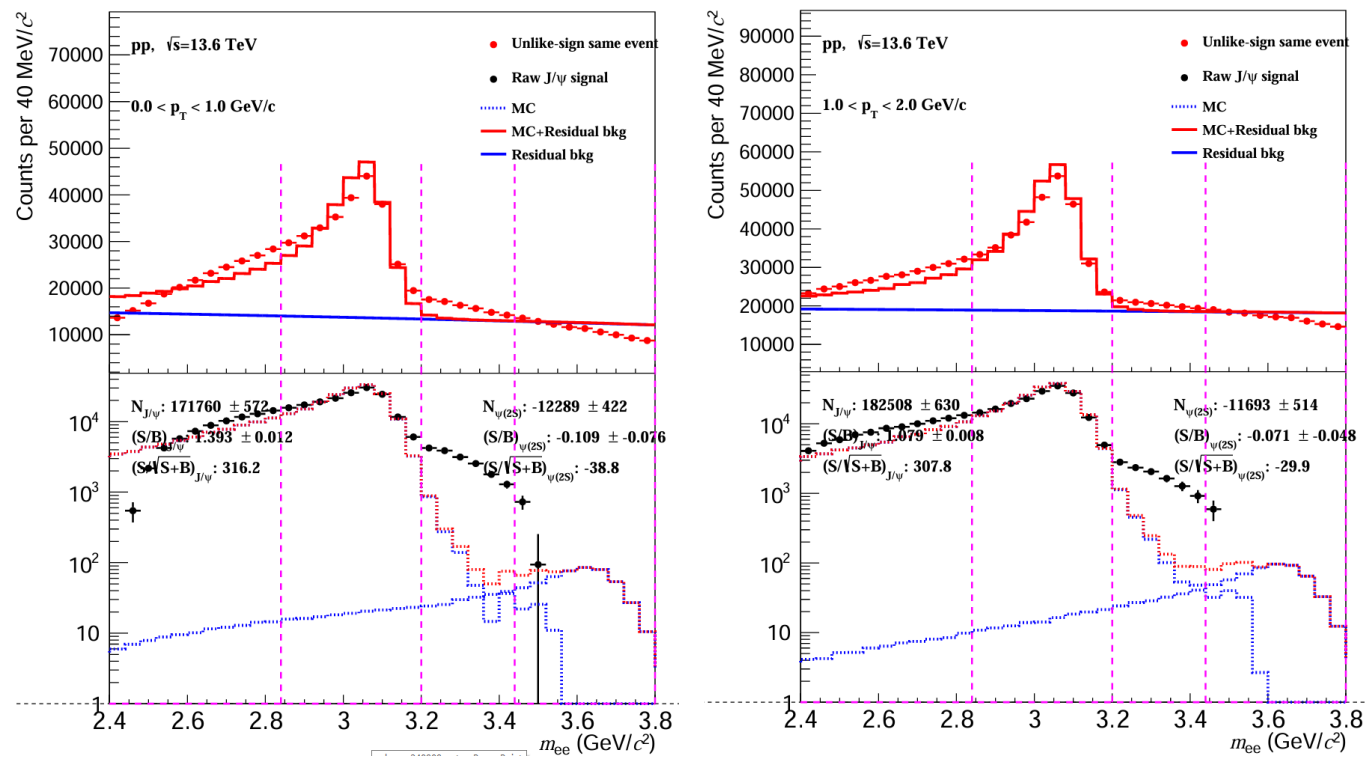
Signal extraction

- Doing the signal extraction with 22 and 23 data.

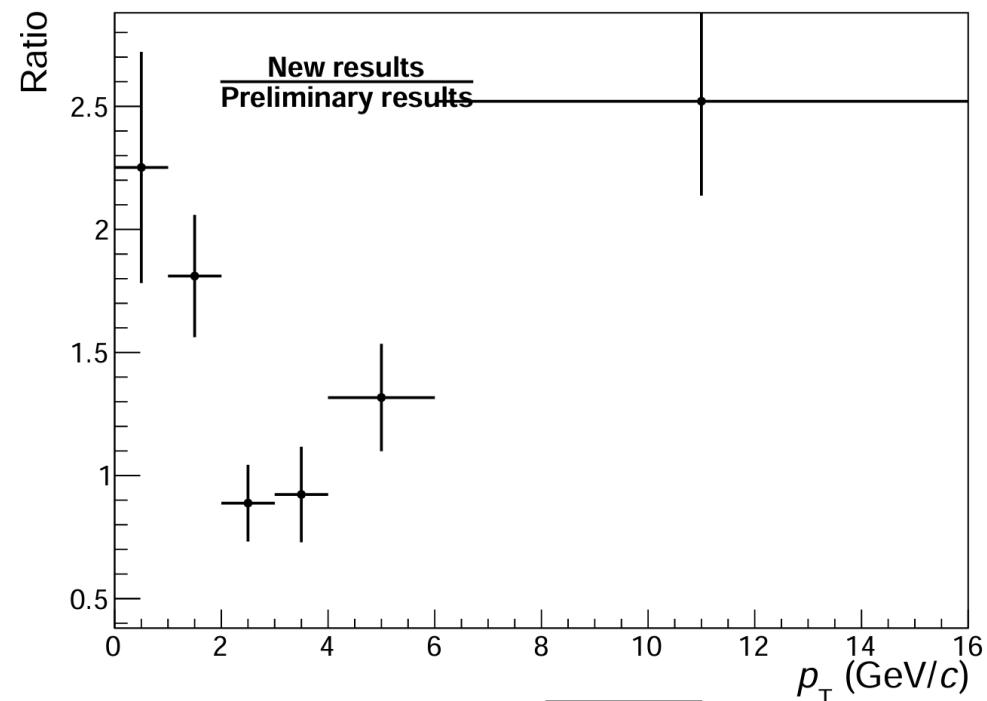
Chebyshev pol for combination&residual bkg

Right side can not be fitted well
Can be caused by signal shape and function for background

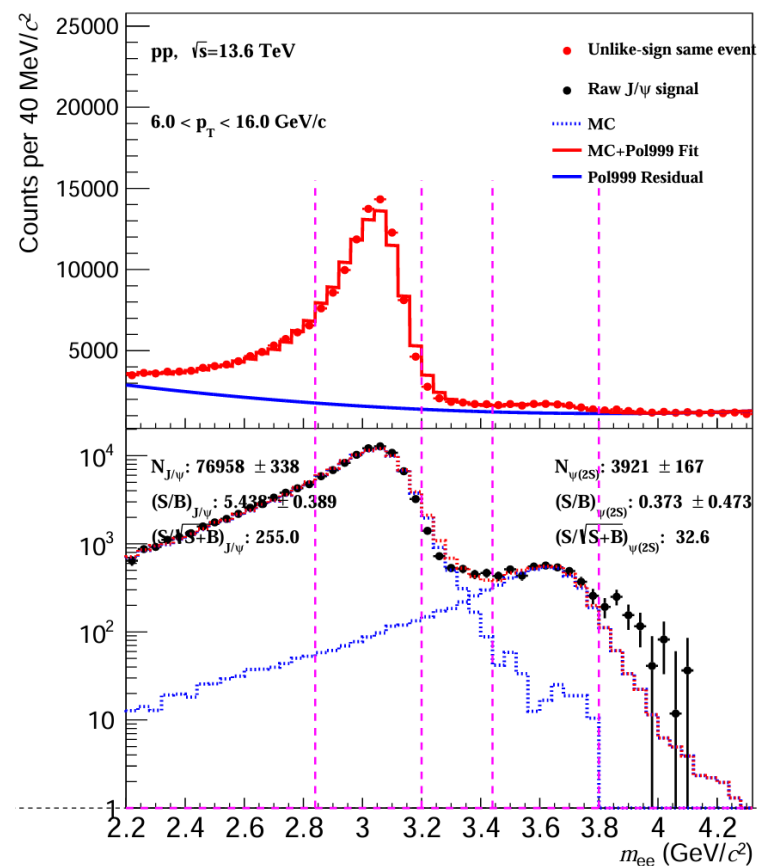
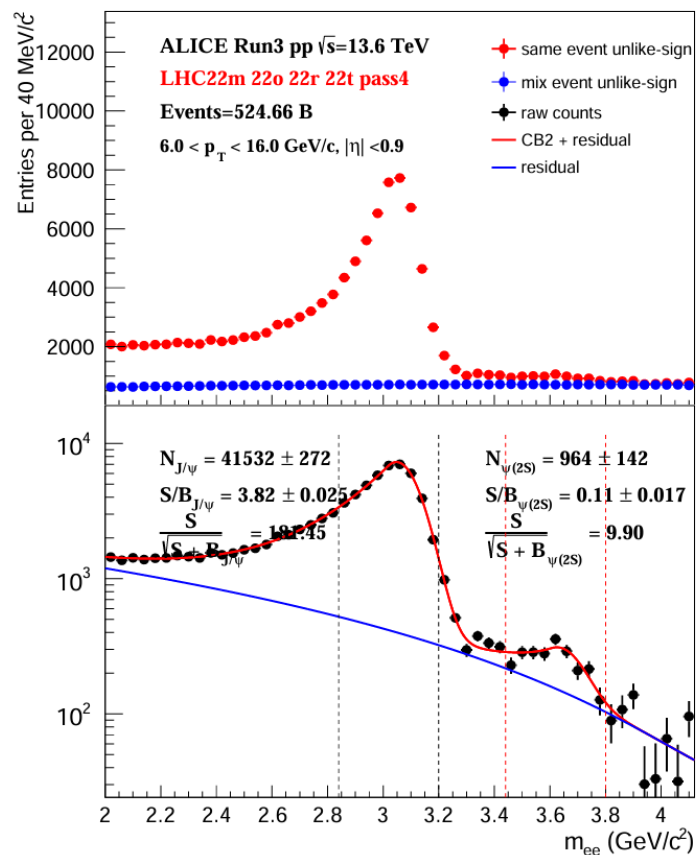




The fit of low pt needs more tuning

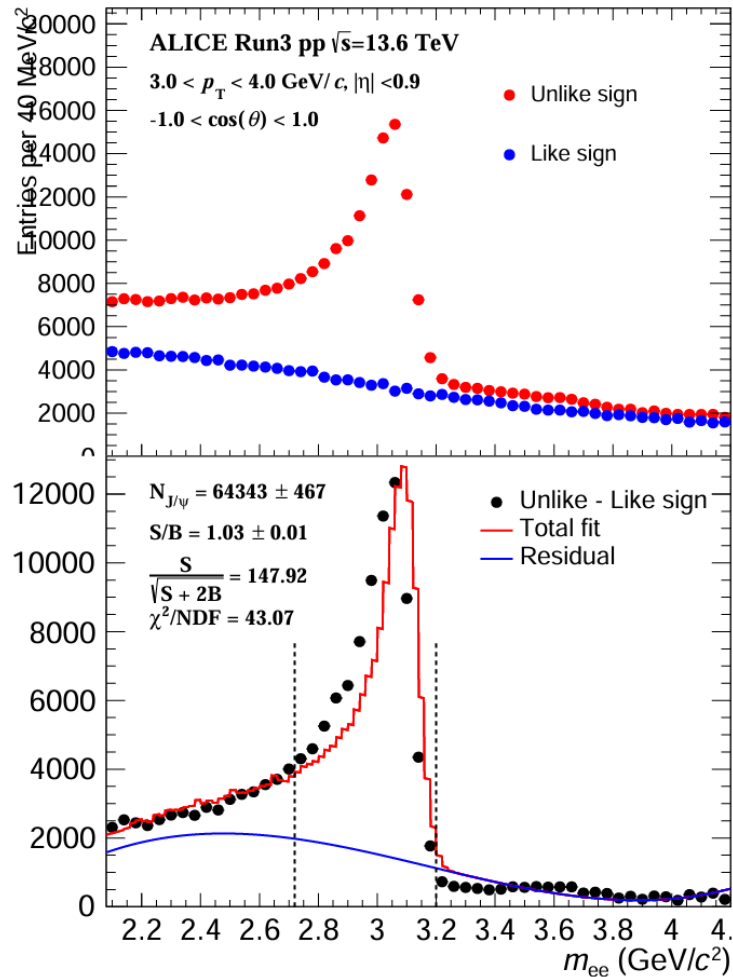


The results at with pt between 2-6 GeV/c can match the preliminary results within uncertainties. But higher in high pt.



The shape of background in pt bin 6-16 GeV/c are different between preliminary results and this new fit.
 This is the reason why the new result is higher than before.

Momentum smear



- Mean value of signal shape is shifted
 - While using LHC23j7b for input is OK (used in the fit in slides before)
 - But when using LHC24d4a for input and the mean value is shifted even with the same code.(used in this plot)
- Need more understanding of the influence of the input of RCpT vs. MCpT.