

辽宁师范大学

李春花

牡丹江会议

济南大学

09.14-16, 2018

粒子物理组

理论组

- 5名职员
 - 教授, 岳崇兴, (辽宁师范大学副校长)
 - 3名副教授, 1名讲师
- ~ 20研究生

Research

- 新物理的唯像研究
- B物理

实验组

- 李春花
- 赵静 (研究生)
- 正在组建中

Research

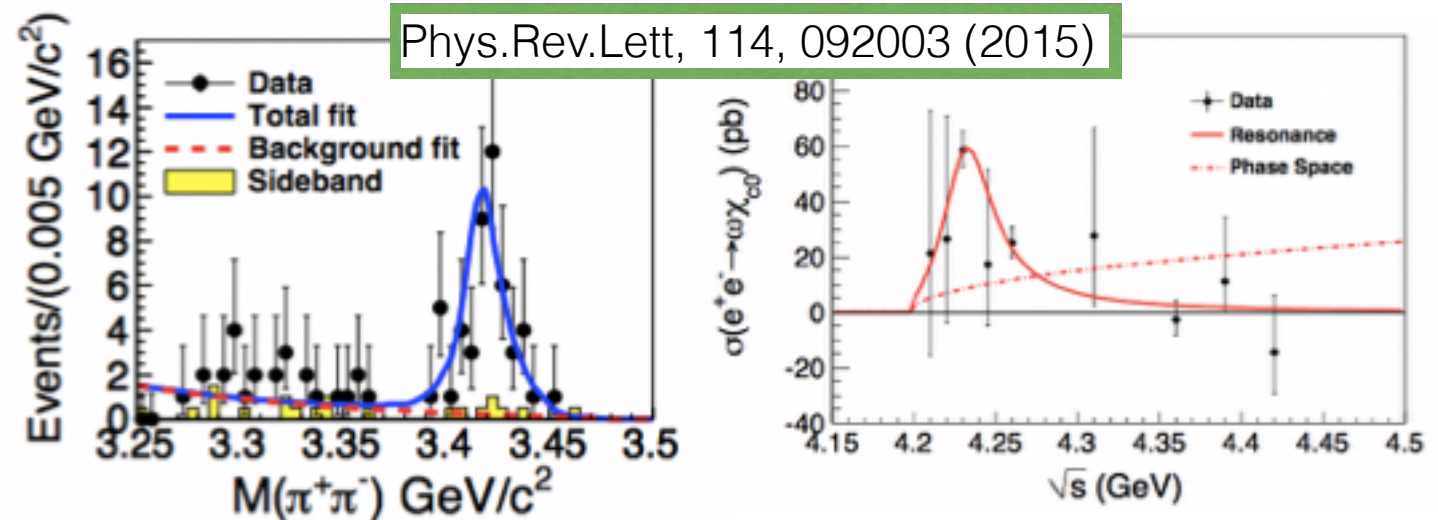
- 今年6月份先后加入Belle II和BES III实验
- 基于BesIII和Belle II实验的重味物理

实验和理论组均在人才招聘中, 欢迎各位老师介绍感兴趣的学生考虑辽师

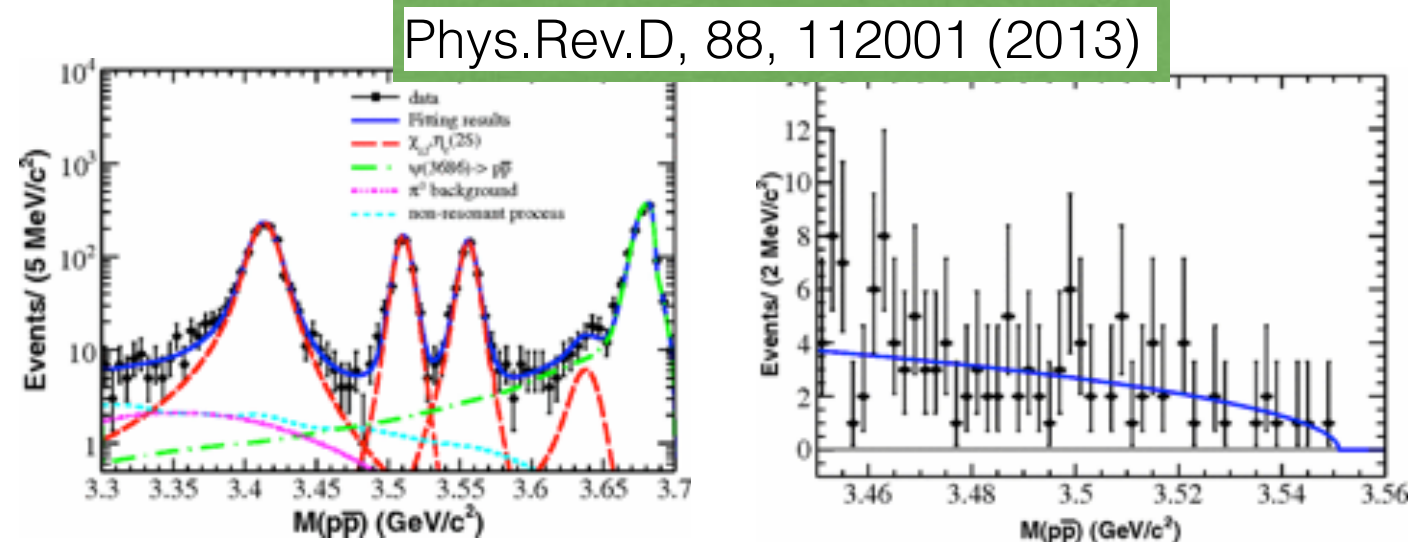
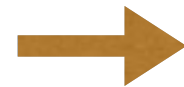
研究经历@BESIII

- Study of the charmonium decays below open charm threshold
- Study of the exotics
- In charge of the calibration and maintenance of the software on Muon chamber.

Observed $e^+e^- \rightarrow \omega \chi_{c0}$ for the first time in the energy region



- Search for $\eta_c(2S)/h_c \rightarrow p\bar{p}$ decays
- Measurements of the $\chi_{cJ} \rightarrow p\bar{p}$ branching fractions



研究经历@Belle II

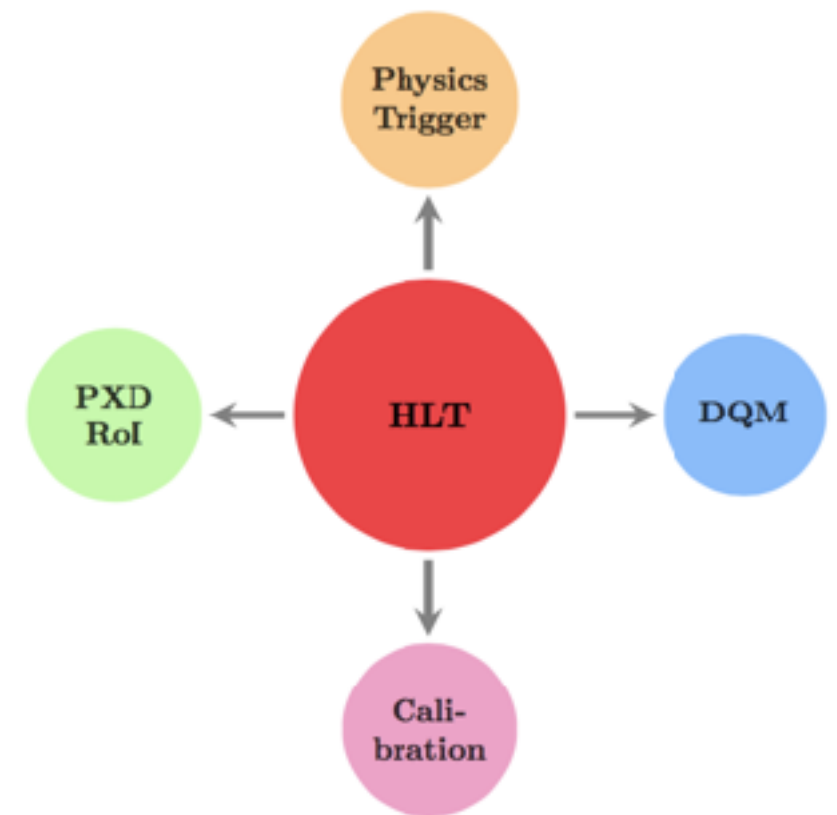
2014.8 - 2017.12.31, worked on Belle II as a postdoctoral researcher in the University of Melbourne, Australia.

High Level Trigger (HLT)

- The convener of HLT group
- In charge of the development of HLT software framework and validation of the code performance
- Development of HLT trigger menu
- HLT is the overlap region of the physics, software, trigger and DAQ groups, communication between these groups are quite important.

Online Integration

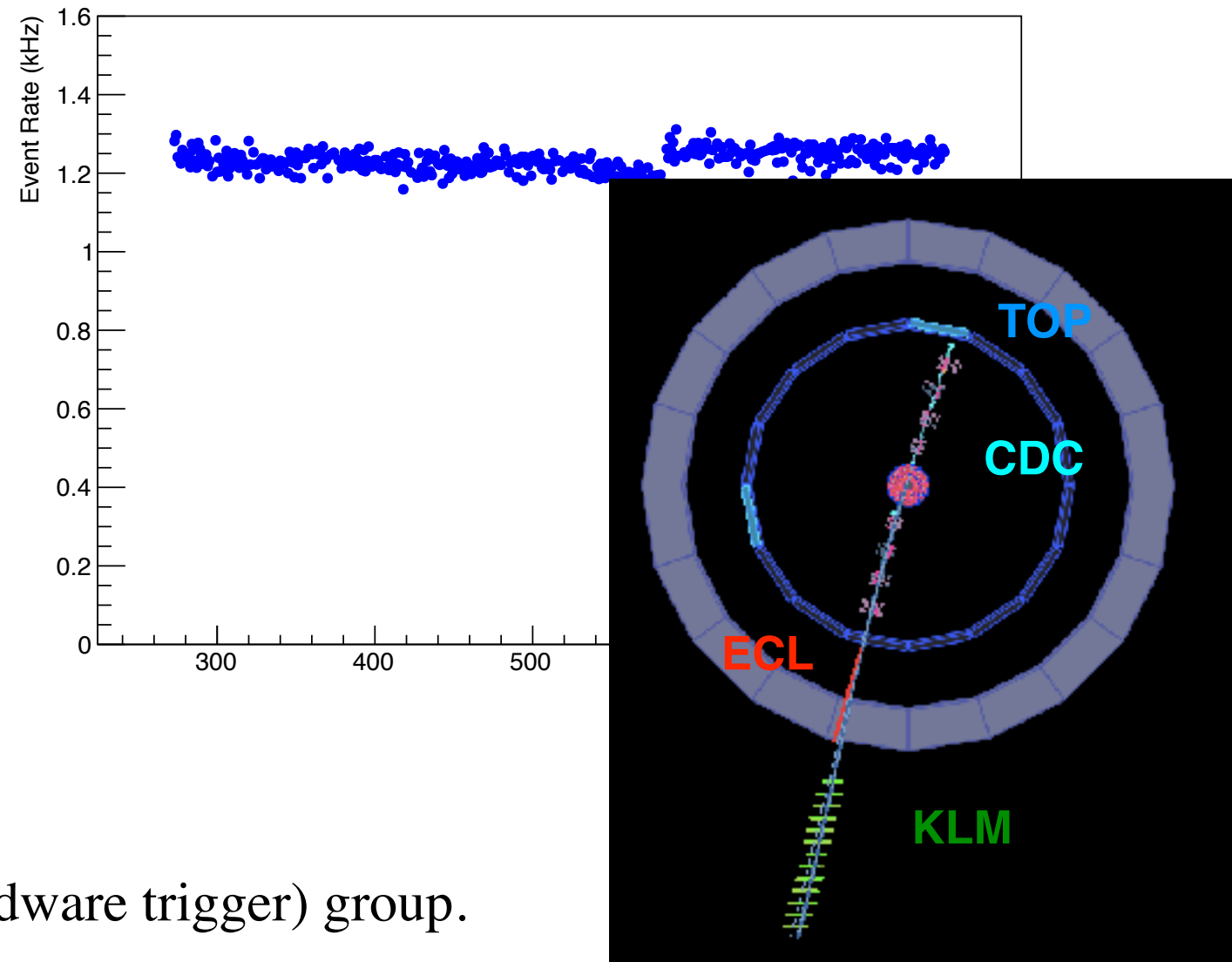
- The contact person of online integration group
- In charge of the operation of software on DAQ system
 - Debug the software on HLT
 - Monitor the online operation
- The bridge of software and DAQ groups



研究经历@Belle II

- **Dress rehearsal**
 - DAQ part of the round 1 dress rehearsal
 - Test HLT with parallel processing
- **Cosmic ray data taking**
 - Debug the software before operating it on realistic data taking
 - Monitor HLT operation during cosmic ray data taking

Average readin event rate per run on HLT03 test bench



TSIM

- Coordinate the TSIM (the simulation of hardware trigger) group.
- Develop the Global Reconstruction Logics and Global Decision Logics.
- Enhance the communication between the physics group and the trigger group
- The first version of fast TSIM was released for the physics study.

未来工作

- **BESIII**
 - 服务工作:取数值班, 数据质量检查等
 - 物理: 4.2-4.6GeV区间的奇异态研究等

- **Belle II**
 - 服务工作: HLT,取数值班
 - 物理: B介子衰变和粲偶素研究