Liang He

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OBJECTIVE Application for the graduate student financial support of Quark Matters 2015

EDUCATION

Ph.D candidate, Dept. of Physics, Purdue University, 2013-present
Master of Science, , USTC Physics Department, 2011-2013
Bachelor of Science, , USTC Physics Department, 2007-2011

COMPUTER SKILLS

Languages & Software: C++11(98), Fortran, Shell Scripting, Latex, HTML, R
Operating Systems: Unix.

EXPERIENCE

D^0 meson study on STAR with HFT 2014-present
STAR collaboration, Purdue University

- Elliptic anisotropy of D^0 using two-particle-correlation method
- Reconstruct primary vertex with KF algorithm, improve the significance of peripheral events

Azimuthal anisotropy in transport models 2013-present
Purdue University

- Anisotropic parton escape is the dominant source of azimuthal anisotropy in transport model

ATLAS W/Zγ analysis 2011-2013
ATLAS collaboration, USTC

- W/Zγ cross-section measurement and anomalous triple gauge couplings.

ATLAS muon detector upgrade 2011-2012
ATLAS collaboration, USTC, University of Michigan

- To Upgrade muon system to apply high luminosity using Thin-gap TPC

Physics Phenomenology Laboratory 2010-2011
USTC

- SBottom single production in SUSY model based on LHeC

PUBLICATIONS

1. Measurement of W/Zγ production cross section in pp collisions at $\sqrt{s_{\rm NN}}$=7 TeV and limits on anomalous triple gauge couplings with the ATLAS detector
   Published at Physics Letter.B
2. Measurement of Wγ and Zγ Productions and Searches for Technicolor in pp collisions at $\sqrt{s_{\rm NN}}$=7 TeV with the ATLAS Detector
   Published at JHEP

TEACHING EXPERIENCE

Physics 310 Intermediate Mechanics, Purdue University
Physics 411 Physical Mechanics II, Purdue University