Baojia(Tony) Tong

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Education

Harvard University, Massachusetts, MA

Ph.D., Experimental High Energy Physics, expected May 2017 Committee: Profs. Melissa Franklin (Adviser), Masahiro Morii, Howard Georgi M.A., Physics, 2014

California Institute of Technology, California, CA

B.A. with honors, Physics, 2012

Research Interests

New physics production and decay with the Higgs Boson Di-Higgs Boson production and measurement Charged particle prompt reconstruction Detector operation, monitoring and development

Research Exprience

Harvard University

Search for $X \to hh \to b\bar{b}b\bar{b}$ using ATLAS 13TeV data	2015-2016
Improvement of Hough Transform in Muon Reconstruction	2015-2016
Development and Organization of Muon Offline Data Monitoring	2015-2016
Prospect study for $hh \to WW\tau\tau$ for High Lumi LHC	2014
Calibration of Harvard Micromega Cosmic Stand	2014
Study of Muon Segments in ATLAS detector using 8TeV data	2012-2014

California Institute of Technology

Study of Vector Boson + Jets using CMS 8TeV data	2011-2012
Design and validation of an optical sensor for telescopes	2009-2010
Design experiment and study of market convergence	2009-2010
Modeling on novel methods of space launching	2008-2009

Publications and Talks

Paper

Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state	2016
Dynamics of Equilibration in the Double Auction Market	2013

Public Notes

ATLAS-CONF-2016-049, $hh \rightarrow 4b$	2016 summer
ATLAS-CONF-2016-017, $hh \rightarrow 4b$	2016 spring

Public Talks

Higgs Boson And BSM Cl	ina: $hh \to 4b$	2016
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Teaching Exprience

Physics Department, Harvard University

Mentoring summer research undergraduate students	2015 - 2016
Teaching Fellow, Physics 125, Widely Applied Physics	2014
Teaching Fellow, Physics 16, Classical Mechanics and Relativity	2013

Physics Department, California Institute of Technology

	Teaching Assistant	t, Physics 50, Physics League	2011-2012
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Honors

Harvard White Teaching Prize for Physics 16	2014
Harvard Traveling Scholar	2015-2016
Caltech Undergrad Summer Research Fellowship	2009-2012

Languages and Skills

Chinese (native), English (proficient), French (elementary) C++, HTML, LATEX, Matlab, Mathematica, Python, ROOT