

Shuai Zha – *Curriculum Vitae*

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Nationality	Chinese		

Personal Profile

I am currently a Ph.D. candidate in Department of Physics, the Chinese University of Hong Kong. I mainly work on developing a hydrodynamics code with neutrino transport to simulate core-collapse supernovae. I also work on evolution of super asymptotic giant branch stars as progenitors of electron capture supernovae.

Education

- 2015-** Ph.D. in Physics - the Chinese University of Hong Kong, Hong Kong
Supernovae simulation and stellar evolution
- 2012-2015** M.Sc. in Physics - Fudan University, Shanghai
Sum-frequency spectroscopy with femtosecond laser
- 2008-2012** B.Sc. in Physics - Fudan University, Shanghai

Publications

- Jan. 2018 Gravitational-Wave and Neutrino Signals from Core-Collapse Supernovae with QCD Phase Transition
Shuai Zha, Shing-Chi Leung, Lap-Ming Lin, and Ming-Chung Chu
JPS Conf. Proc., **20**, 011053
- Jun. 2016 Surface pH and Ion Affinity at the Alcohol-Monolayer/Water Interface Studied by Sum-Frequency Spectroscopy
Yu-Chieh Wen, Shuai Zha, Chuanshan Tian, and Yuen-Ron Shen
The Journal of Physical Chemistry C, **120**, 28
- Jan. 2016 Unveiling Microscopic Structures of Charged Water Interfaces by Surface-Specific Vibrational Spectroscopy
Yu-Chieh Wen, Shuai Zha, Xing Liu, Shanshan Yang, Pan Guo, Guosheng Shi, Haiping Fang, Yuen-Ron Shen, and Chuanshan Tian
Phys. Rev. Lett., **116**, 016101
- Aug. 2014 Carbon nanodots featuring efficient FRET for two-photon photodynamic cancer therapy with a low fs laser power density
Jing Wang, Zehui Zhang, Shuai Zha, Yinyan Zhu, Peiyi Wu, Benjamin Ehrenberg, and Ji-Yao Chen
Biomaterials, **35**, 9372

Talks

- Jul. 2018 IPMU, APEC seminar
Correlated Gravitational-wave and Neutrino Signal from Accretion-Induced Collapse of White Dwarfs
- Jul. 2016 IPMU, APEC seminar
Accretion Induced Collapse of White Dwarf and its Possible Signals

Posters

- Sep. 2018 Sixth Annual GMT Community Science Meeting, Honolulu, Hawaii
G-wave and Neutrino Signal from Accretion-Induced Collapse of White Dwarfs
- Feb. 2017 Quarks and Compact Stars, Kyoto, Japan
Gravitational-Wave and Neutrino Signals from Core-Collapse Supernovae with QCD Phase Transition

Teaching experience

- 2015- **Teaching assistant** General Physics, Astronomy
- 2012-2015 **Teaching assistant** University Physics, Semiconductor Physics, Nonlinear Optics

Programming Language

Fortran, C, matlab, Python

Language

Mandarin (native), English (second), Japanese (Basic)