Rui Luo

Curriculum Vitae

Kavli Institute for Astronomy and Astrophysics
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Education

2013 - present **PhD candidate**, *Peking University*, Beijing, China.

Supervisor: Kejia Lee (KIAA-PKU)

2009 - 2013 B.Sc., Huazhong University of Science and Technology, Wuhan, China.

Research Interests

Astronomical: Fast Radio Bursts, Pulsars, Cosmology

Statistical: Bayesian inference, Machine Learning, Algorithms

Awards

- 2013 2018 Second Academic Scholarship, Peking University
 - 2016 Kwang-Hua Scholarship, Peking University
 - 2016 Award for Scientific Research, Peking University
 - 2015 Second Prize of Chen Huxiong Scholarship, Peking University
 - 2015 Award for Community or Public Service, Peking University
 - 2014 Merit Graduate Student, Peking University
 - 2013 Annual Scholarship of National Astronomical Observatories, Chinese Academy of Sciences

Publications

First-author papers:

- 2 Luo, R., Lee, K. J., et al., FRB event rate density, 2018, in prep.
- 1 Luo, R., Lee, K. J., Lorimer, D. R., & Zhang, B., On the normalised FRB luminosity function, 2018, MNRAS, 481, 2320

Contributed papers:

4 Yi, S.-X., Cheng, K. S., & **Luo**, **R.**, Clumpy jets from black hole-massive star binaries as engines of Fast Radio Bursts, 2018, MNRAS, **submitted**

- 3 Wang, W. Y., Lu, J. G., Zhang, S. B., Chen, X. L., **Luo, R.**, & Xu, R. X., *Pulsar giant pulse: coherent instability near light cylinder*, 2018, A&A, **submitted** (arXiv:1805.00139)
- Wang, W. Y., Luo R., Yue, H., Chen, X. L., Lee, K. J., & Xu, R. X., FRB 121102: A Starquake-induced Repeater?, 2018, ApJ, 852, 140
- 1 Yang, Y.-P., **Luo, R.**, Li, Z., & Zhang, B., *Large Host-galaxy Dispersion Measure of Fast Radio Bursts*, 2017, ApJ, 839, L25

Conferences & Talks

- 2018 NAOC Graduate Student Seminar, Beijing, China, Apr. 23, 2018 Invited talk: A Review of Fast Radio Bursts and FRB luminosity function
- 2017 Radio Astronomy Forum 2017, Pingtang, China, Sep. 24-27, 2017 Poster: Simulating DM of host galaxies to derive FRB luminosity function
- 2017 Pulsar Timing Array in China, Beijing, China, May 30-31, 2017 Contributed as LOC member
- 2017 FAST/Future Pulsar Symposium 6, Wuhan, China, Jun. 28-30, 2017 Contributed talk: Simulating DM of host galaxies to derive FRB luminosity function
- Chinese Astronomical Society 2016 Annual Meeting, Wuhan, China, Nov. 1-3, 2016
 Contributed talk: Simulating the dispersion measure of host galaxies
- 2016 Jing-Guang-Xia Astrophysics Meeting, Xiamen, China, July 21-23, 2016 Contributed talk: Simulating the dispersion measure of host galaxies
- 2016 QTT Colloquium Series 2016, Zunyi, China, July 3-4, 2016 Contributed talk: Simulating the dispersion measure of FRB host galaxies
- 2016 PKU-XAO Bilateral Meeting, Urumqi, China, Jun. 10-13, 2015 Contributed talk: Simulating the dispersion measure of FRB host galaxies
- 2015 Chinese Astronomical Society 2015 Annual Meeting, Beijing, China, Oct. 19-21, 2015
 - Contributed talk: Consideration of Research on FRBs
- 2015 International Pulsar Timing Array 2015 Meeting, Parkes&Leura, Australia, July 19-31, 2015
- 2015 QTT Colloquium Series 2015, Ming'antu, China, July 2-3, 2015 Contributed talk: *Consideration of Research on FRBs*
- 2015 KIAA-SHAO Bilateral Workshop, Beijing, China, May 18-19, 2015 Contributed talk: *Consideration of FRB searching*

Observing Experience

- Aug. 2017 Installation of FRB backend at YNAO 40-m radio telescope and search for FRBs
- Apr. 2016 Instrumentation tests at FAST site before its inauguration.
- Aug. 2015 Installation PSR backend for Miyun 50-m radio telescope and observing pulsars.
- Oct. 2014 Calibration for polarization of 40-m radio telescope in Yunnan Astronomical Observatory and observing pulsars.

Teaching Experience

- 2017 Teaching Assistant of General Physics for non-physics Schools, Peking University
- 2015 Teaching Assistant of Atomic Physics, School of Physics, Peking University

Technical Skills

Programming PYTHON (Proficient), C, C++, UNIX, LATEX

Softwares Matlab, Mathematica, Qt Designer

Web WordPress, Markdown, GitHub

Language

English Chinese

Japanese

Professional working proficiency Native or bilingual proficiency Basic words and phrases only