Shu-Xu Yi

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RESEARCH INTERESTS

- Pulsar timing,
- Pulsars/pulsar binaries emission modeling,
- Gravitational waves

EDUCATION

ED C GITTOTT	
The University of Chinese Academy of Sciences, China, PhD in Astrophysics. Thesis: "Applications of pulsar timing" Advisor: Zhang, Shuang-Nan	2010/08-2016/08
Tsinghua University , China, Bachelor of Science. Major: Math and Physics	2006/08-2010/08
APPOINTMENTS	
The University of Hong Kong, Postdoctoral fellow; work with Prof. KS Cheng on pulsar high energy emission modeling	Since 2016/10
The Institute of High Energy Physics, Chinese Academy of Sciences, Research assistant	2012/06-2016/08
Peking University , visiting scholar; worked with Prof. KJ Lee on pulsar timing	2015/12-2016/02
The University of Manchester, visiting scholar; worked with Prof. Stappers with pulsar timing	2012/10-2013/10

HONORS & REWARDS

Crab prize, RMB 5000 Yuan

Future Pulsar Symposium 6, Wuhan, 2017/06/28-30

Highlight talks, RMB 3000 Yuan in total

Annual Meeting of Beijing Astronomical Society in 2011, 2012, 2015

OUTREACH

Lectures on astronomy for middle school students, 10 hours in total

57th middle school, Beijing 2016

Contributing editor of Journal *Global*Science, (Chinese edition of Scientific
American)

2015

REFERENCES

Prof. Dr. Zhang, Shuang-Nan (Ph.D advisor)

Institute of High Energy Physics, Chinese Academy of Sciences, China Email: zhangsn@ihep.ac.cn

Prof. Dr. Cheng, Kwong-Sang (Postdoc supervisor)

The University of Hong Kong, China

Email: hrspksc@hku.hk

Dr. Li Jian

Institute of Space Science (IEEC-CSIC), Barcelona, Spain

Email: jian@ieec.uab.es

LIST OF PUBLICATIONS

Published or Accepted for publication by peer reviewed Journals

- Shu-Xu Yi, K. S. Cheng; Modeling the GeV emission of HESS J0632+057, accepted for publication in MNRAS 2017.
 - http://adsabs.harvard.edu/abs/2017arXiv170708263Y
- 2. **Shu-Xu Yi**, K. S. Cheng; A new approach to the GeV flare of PSR B1259-63/LS2883, accepted for publication in ApJ 2017. http://adsabs.harvard.edu/abs/2017arXiv170608715Y
- 3. **Shu-Xu Yi**; On gravitational wave-Cherenkov radiation from photons when passing through diffused dark matters, Modern Physics Letters A, Volume 32, Issue 9, 2017 http://adsabs.harvard.edu/abs/2017MPLA...3250059Y
- 4. **Shu-Xu Yi**, Shuang-Nan Zhang; *Detecting super-Nyquist-frequency gravitational waves using a pulsar timing array, Science China Physics, Mechanics & Astronomy,* Volume 59, Issue 8, 2016. http://adsabs.harvard.edu/abs/2016SCPMA..59h..95Y
- Xu-Dong Gao, Shuang-Nan Zhang, Shu-Xu Yi, Yi Xie, Jian-Ning Fu; Understanding the residual patterns of timing solutions of radio pulsars with a model of magnetic field oscillation, MNRAS, 2016, Volume 459, Issue 1, p.402-418 http://adsabs.harvard.edu/abs/2016MNRAS.459..402G
- Shu-Xu Yi, Shuang-Nan Zhang; The evolution of the magnetic inclination angle as an explanation of the long term red timing-noise of pulsars,
 MNRAS, 2015, Volume 454, Issue 4, p.3674-3678
 http://adsabs.harvard.edu/abs/2015MNRAS.454.3674Y
- 7. Yu Rong, **Shu-Xu YI,** Shuang-Nan Zhang, *Radial alignment of elliptical galaxies by the tidal force of a cluster of galaxies, MNRAS, 2015,* Volume 451, Issue 3, p.2536-2543, http://adsabs.harvard.edu/abs/2015MNRAS.451.2536R
- 8. Shan-shan Weng, Shuang-Nan Zhang, **Shu-Xu Yi**, Yu Rong, Xu-Dong Gao; *X-ray softening during the 2008 outburst of XTE J1810-189, MNRAS,2015*, Volume 450, Issue 3, p. 2915-2921, http://adsabs.harvard.edu/abs/2015MNRAS.450.2915W
- 9. **Shu-Xu Yi**, Benjamin Stappers, Sotiris Sanidas, Cees Bassa, Gemma Janssen, Andrew Lyne, Micheal Kramer, Shuang-Nan Zhang; *Limits on the strength of individual gravitational wave sources using high-cadence observations of PSR B1937+21, MNRAS, 2015, Volume 445, Issue 2, p.1245-1252, http://adsabs.harvard.edu/abs/2014MNRAS.445.1245Y*

Other Publications:

- 1. Shuang-Nan Zhang, Yuan Liu, **Shu-Xu Yi,** Zigao Dai, Chao-guang Huang, *Do we expect to detect electromagnetic radiation from merging stellar mass black binaries like GW150914? No* https://arxiv.org/abs/1604.02537
- 2. Shuang-Nan Zhang, **Shu-Xu Yi**, On a Common Misunderstanding of the Birkhoff Theorem and Light Deflection Calculation: Generalized Shapiro Delay and its Possible Laboratory Test, International Journal of Modern Physics: Conference Series, Volume 12, pp. 419-430 (2012).

http://adsabs.harvard.edu/abs/2012IJMPS..12..419Z