

Xinyu Li

CONTACT INFORMATION	CITA, 60 St George Street, Toronto, ON, M5R 2M8, Canada	xli@cita.utoronto.ca
NATIONALITY	Chinese	
RESEARCH INTERESTS	High Energy Astrophysics, Magnetars, Magnetohydrodynamics, Force-Free Electrodynamics, Plasma Astrophysics, Cosmology, Large Scale Structure, Dark Matter, Galaxy Formation	
EDUCATION	Columbia University , New York, NY, USA Ph.D., Physics, August 2019 <ul style="list-style-type: none">• Thesis Topic: <i>Magnetodynamics Inside and Outside Magnetars</i>• Advisor: Prof Andrei Beloborodov Perimeter Institute / University of Waterloo , Waterloo, ON, Canada M.Sc, Theoretical Physics, June 2013 <ul style="list-style-type: none">• Thesis Topic: <i>Towards an Investigation of Turbulence in High Dimensions</i>• Advisor: Prof Luis Lehner & Prof Robert Myers The University of Hong Kong , HKSAR, China B.Sc, Physics and Mathematics (Double Major), June 2012 <ul style="list-style-type: none">• First Class Honor Tsinghua University , Beijing, China Physics and Mathematics, June 2008 <ul style="list-style-type: none">• One-year preparatory study required by the University of Hong Kong	
WORK EXPERIENCE	• Postdoctoral Fellow, Canadian Institute for Theoretical Astrophysics & Perimeter Institute 2019/9-present	
AWARDS	• Joseph C. Pfister Fellowship, Columbia University 2018 • Dean's Fellowship, GSAS, Columbia University 2013 • Perimeter Scholars International Scholarship, Perimeter Institute 2012 • Li Po Kwai Scholarship, The University of Hong Kong 2011/12 • HSBC Scholarship for Mainland Students, The University of Hong Kong 2011	
REFEREED JOURNAL PUBLICATIONS	1. Lam Hui, Daniel Kabat, Xinyu Li, Luca Santoni and Sam S. C. Wong, <i>Black hole hair from scalar dark matter</i> Journal of Cosmology and Astroparticle Physics, 06, 038 (2019) 2. Xinyu Li, Jonathan Zrake and Andrei Beloborodov, <i>Dissipation of Alfvén Waves in Relativistic Magnetospheres of Magnetars</i> , The Astrophysical Journal, 881, 1, (2019) 3. Xinyu Li, Lam Hui and Greg Bryan, <i>Numerical and Perturbative Computations of the Fuzzy Dark Matter Model</i> , Physical Review D, 99, 63509, (2019) 4. Xinyu Li, Yuri Levin and Andrei Beloborodov, <i>Magnetar Outbursts from Avalanches of Hall Waves and Crustal Failures</i> , The Astrophysical Journal, 189, 12, (2016) 5. Andrei Beloborodov and Xinyu Li, <i>Magnetar Heating</i> , The Astrophysical Journal, 261, 20, (2016)	

6. Xinyu Li and Andrei Beloborodov, *Plastic Damping of Alfvén Waves in Magnetar Flares and Delayed Afterglow Emission*, The Astrophysical Journal, 815, 25, (2015)
7. Xinyu Li, Fayin Wang and K.S. Cheng, *Gravitational Effects of Condensate Dark Matter on Compact Stellar Objects*, Journal of Cosmology and Astroparticle Physics, 10, 031, (2012)
8. Xinyu Li, T. Harko and K.S.Cheng, *Condensate Dark Matter Stars*, Journal of Cosmology and Astroparticle Physics, 06, 001, (2012)

JOURNAL The Astrophysical Journal, Journal of High Energy Physics, Astrophysics and Space
 REVIEWER Science, Physical Letter B, New Astronomy, Zeitschrift fr Naturforschung A

PROGRAMMING Python, C++, Fortran Mathematica
 SKILLS