

Curriculum Vitae

Baoyi Chen

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EDUCATION

Ph.D. Candidate Physics

Expected June 2020

California Institute of Technology, Pasadena, CA, USA

Dissertation Advisor: Prof. Yanbei Chen

Dissertation Title: *to be determined*

B.S. Materials Physics

June 2015

Nanjing University, Nanjing, Jiangsu, China

Thesis Title: *Into the Magnetic Skyrmion*

PROFESSIONAL EMPLOYMENT

Research and Teaching Assistant

Fall 2015 - present

California Institute of Technology, Pasadena, CA, USA

UG Visiting Internship Student

Summer 2014

The Hong Kong University of Science and Technology, Hong Kong, China

REFEREED PUBLICATIONS

1. **B. Chen**, Feng-Li Lin, Bo Ning (2019), *Gedanken experiments to destroy a BTZ black hole*, in press, accepted by Phys. Rev. D , [[gr-qc/1902.00949](#)]
2. **B. Chen**, L. C. Stein (2018), *Deformation of extremal black holes from stringy interactions*, Phys. Rev. D **97**, 084012, [[gr-qc/1802.02159](#)]
3. **B. Chen**, L. C. Stein (2017), *Separating metric perturbations in near-horizon extremal Kerr spacetimes*, Phys. Rev. D **96**, 064017, [[gr-qc/1707.05319](#)]

4. **B. Chen**, G. Chen, Y. E. Cheung, R. Xie, Y. Xin (2015), *Top-forms of leading singularities in nonplanar multi-loop amplitudes*, *Eur. Phys. J. C* **78** 164, [[hep-th/1507.03214](#)]
5. **B. Chen**, G. Chen, Y. E. Cheung, Y. Li, R. Xie, Y. Xin (2014), *Nonplanar On-shell Diagrams and Leading Singularities of Scattering Amplitudes*, *Eur. Phys. J. C* **77** 80, [[hep-th/1411.3889](#)]

NON-REFEREED PUBLICATIONS

1. **B. Chen**, Yanbei Chen, Yiqiu Ma, Ka-Lok R. Lo, Ling Sun (2019), *Instability of exotic compact objects and its implications for gravitational-wave echoes*, under review by Phys. Rev. Lett. , [gr-qc/1902.08180](#)

SELECTED HONORS AND AWARDS

Samsung Scholarship	2013
Samsung Electronics Co., Ltd.	
Outstanding Student Award	2012
Nanjing University	

INVITED TALKS

1. *Instability of exotic compact objects and its implications for GW echoes* [[slides](#)]
Perimeter Institute, Waterloo, ON, Canada **April 25 2019**

CONTRIBUTED TALKS

1. *Instability of exotic compact objects and its implications for GW echoes* [[slides](#)]
GR 22 & Amaldi 13, Valencia, Spain **July 2019**
2. *Gedanken experiments to destroy a BTZ black hole* [[slides](#)]
APS April Meeting 2019, Denver, CO, USA **April 2019**
3. *Deformations of extremal black holes in GR and from stringy interactions* [[slides](#)]
34th Pacific Coast Gravity Meeting, Caltech & APS April Meeting **March 2018**
4. *Linear metric perturbations in near-horizon extremal Kerr* [[slides](#)]
33rd Pacific Coast Gravity Meeting, UCSB **March 2017**