Baoyi Chen

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Education

Ph.D. Physics **Expecting**

California Institute of Technology, Pasadena, CA, USA

Dissertation Advisor: Prof. Yanbei Chen

Dissertation Title: *to be determined*

B.S. Materials Physics **June 2011**

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**, L. C. Stein (2018), *Deformation of extremal black holes from stringy interactions*, Phys. Rev. D **97**, 084012, [gr-qc/1802.02159]
2. **B. Chen**, L. C. Stein (2017), *Separating metric perturbations in near-horizon extremal Kerr spacetimes*, Phys. Rev. D **96**, 064017, [gr-qc/1707.05319]
3. **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]
4. **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]

Selected Honors and awards

Samsung Scholarship **2013**

Samsung Electronics Co., Ltd.

Outstanding Student Award **2012**

Nanjing University

Contributed Talks

1. *Deformations of extremal black holes in GR and from stringy interactions* [slides]

   34th Pacific Coast Gravity Meeting, Caltech **March 2018**

2. *Linear metric perturbations in near-horizon extremal Kerr* [slides]

   33rd Pacific Coast Gravity Meeting, UCSB **March 2017**