



复旦大学物理系 物质科学报告

Time: 2:00pm, Tuesday, 2017.11.07

Location: Physics Building, Room 221B

A NICER Future for Accreting Stellar-Mass Black Holes

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NICER is the new premier X-ray timing instrument onboard the International Space Station, having been installed this summer. I will present some of NICER's early results on accreting stellar-mass black holes in micro-quasar systems, and describe NICER's prospects for addressing forefront topics in astrophysics such as discerning accretion-disk structure, mapping disk-coronal geometry, and measuring black-hole spin.



James ("Jack") Steiner graduated with his PhD in Astronomy from Harvard University in 2012, and earned bachelors degrees in Applied Mathematics and Astrophysics from Ohio University. After completing his PhD, Jack worked as a postdoctoral fellow at the IoA

in Cambridge, and as a Hubble Fellow at SAO before taking up his current position as an Einstein Fellow at MIT.

Current Research interests:

Jack's research involves observations of black hole systems, especially stellar-mass black holes and black holes in ultra luminous X-ray sources (ULXs).