Subhaneil Lahiri

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Current occupation

Postdoctoral Research Fellow: Samuel Lab (Biophysics, Harvard University, Cambridge MA, July 2009 – present). Performing quantitative analysis of brain and behavior in the *Drosophila* larva.

Education

Harvard University, Cambridge MA: Ph.D., Physics, June 2009.
Ph.D. Thesis: Black holes from fluid mechanics. Advisor: Shiraz Minwalla.

Tata Institute, Mumbai, India: Visiting student, Spring 2006 – Spring 2007. Research in theoretical physics.

Oxford University, Oxford, UK: M.Phys., 1st class honors, Merton college, 2003.
M.Phys. Project: Monte Carlo simulations of galactic heating.

Published articles

[1] S. Lahiri, K. Shen, M. Klein, A. Tang, E. Kane, M. Gershow, P. Garrity, and A. D. T. Samuel, "Two alternating motor programs drive navigation in *Drosophila* larva," *PLoS ONE* **6** (2011) e23180, PubMed:21858019.

[2] J. Bhattacharya and S. Lahiri, "Lumps of plasma in arbitrary dimensions," *JHEP* **1008** (2010) 073, arXiv:0903.4734 [hep-th].

[3] S. Bhattacharyya, S. Lahiri, R. Loganayagam, and S. Minwalla, "Large rotating AdS black holes from fluid mechanics," *JHEP* **09** (2008) 054, arXiv:0708.1770 [hep-th].

[4] S. Lahiri and S. Minwalla, "Plasmarings as dual black rings," *JHEP* **05** (2008) 001, arXiv:0705.3404 [hep-th].

[5] I. Biswas, D. Gaiotto, S. Lahiri, and S. Minwalla, "Supersymmetric states of N = 4 Yang-Mills from giant gravitons," *JHEP* **12** (2007) 006, arXiv:hep-th/0606087.

Awards and Fellowships

Certificate of distinction in teaching (Harvard University, Cambridge MA, Spring 2008).

Vineer Bhansali Graduate Travel Fellowship (Harvard University, Cambridge MA, 2006).

James Mills Pierce Fellowship (Harvard University, Cambridge MA, 2003).

Scott Prize for best performance in M.Phys. examination (Oxford University, Oxford, UK, 2003).

Commendation for prelims practical work (Oxford University, Oxford, UK, 2000).

Teaching experience

SERC School Tutor: Taught at an intensive school in high energy theoretical physics for graduate students in India (Hyderabad University, Hyderabad, India, 2007).

Harvard University Teaching Fellow: Taught physics classes for undergraduates in physics and other departments (Harvard University, Cambridge MA, Fall 2004 – Fall 2005, Spring 2008 – Fall 2010).

Harvard Summer Teaching Fellow: Taught physics daily to high school students and undergraduates from various colleges (Harvard University, Cambridge MA, 2005).

Conference and school attendance

Sloan-Swartz Centers for Theoretical Neurobiology Annual Meeting: Harvard University, Cambridge MA. July 25–28, 2009.

Monsoon Workshop on String Theory: TIFR, Mumbai, India. July 7–August 3, 2008.

TASI 2007: University of Colorado, Boulder CO. May 28-June 22, 2007.

1st Asian Winter School on String Theory: KIAS, Seoul, S. KoreaJanuary 2007.
Invited talk: Giant gravitons and the supersymmetric states of N= 4 Yang-Mills.

Indian Strings Meeting: Puri, India. December 12– 9, 2006.

Strings 2006: Beijing, China. June 19–24 2006.

Strings 2005: Toronto, Canada. July 10–16, 2005.

Strings, Gravity & Cosmology Summer School: UBC, Vancouver, Canada. August 2004.

Introductory School on Recent Developments in Supersymmetric Gauge Theories: ICTP, Trieste, Italy. June 14–25, 2004.