

Biographical Sketch

Xi Yin
Department of Physics

Education and Training

University of Science & Technology, China, B.S. 2001, Physics
Harvard University, PhD. 2006, Physics

Research and Professional Experience

2008-Present Assistant Professor, Department of Physics, Harvard University
2006-2008 Junior Fellow, Harvard Society of Fellows, Harvard University
Honor: 2004 GSAS Merit Fellowship, Harvard University

Selected Publications (in chronological order).

1. D. Gaiotto, A. Strominger, X. Yin: *New Connections Between 4-D and 5-D Black Holes*, JHEP 0602:024, 2006; arXiv: hep-th/0503217.
2. D. Gaiotto, A. Strominger, X. Yin: *5D Black Rings and 4D Black Holes*, JHEP 0602:023, 2006; arXiv: hep-th/0504126.
3. D. Shih, A. Strominger, X. Yin: *Recounting Dyons in $N=4$ String Theory*, JHEP 0610:087, 2006; arXiv: hep-th/0505094.
4. D. Gaiotto, A. Strominger, X. Yin: *The M5-Brane Elliptic Genus: Modularity and BPS States*, JHEP 0708:070, 2007; arXiv: hep-th/0607010.
5. D. Gaiotto, X. Yin: *Notes on Superconformal Chern-Simons-Matter Theories*, JHEP 0708:056, 2007; arXiv:0704.3740 [hep-th].
6. D. Gaiotto, X. Yin: *Genus Two Partition Functions of Extremal Conformal Field Theories*, JHEP 0708:029, 2007; arXiv:0707.3437 [hep-th].
7. X. Yin: *Partition Functions of Three-Dimensional Pure Gravity*, Communications in Number Theory and Physics, Vol.2, No.2, 285, 2008; arXiv:0710:2129 [hep-th].
8. D. Gaiotto, S. Giombi, X. Yin: *Spin Chains in $N=6$ Superconformal Chern-Simons-Matter Theory*, arXiv:0806.4589 [hep-th].
9. S. Giombi, X. Yin: *ZZ Boundary States and Fragmented AdS Spaces*, arXiv: 0808.0923.
10. D. L. Jafferis, X. Yin: *Chern-Simons-Matter Theory and Mirror Symmetry*, arXiv: 0810.1243.

Synergistic Activities

• Conference Talks

Annual International Conference *Strings 2006*, Beijing, China, June 2006
XXXVIIth Paris Summer Institute on Black Holes, Black Rings and Modular Forms, Ecole Normale Supérieure, Paris, France, August 2007
Monsoon Workshop on String Theory, International Center for Theoretical Physics, Tata Institute of Fundamental Research, Mumbai, India, July 2008
Workshop “*3D SCFTs and Their Gravity Duals*”, McGill University, Montreal, Quebec, Canada, September 2008
Workshop “*AdS/CFT, Condensed Matter and QCD*”, McGill University, Montreal, Quebec, Canada, October 2008.

• Lectures

Lectures on Conformal Field Theories, University of Science & Technology – China, Shanghai Institute of Advanced Study, Shanghai, China, 2005
Introduction to $N=4$ Super-Yang-Mills and S-Duality, Seminar Series on Geometric Langlands Program, MIT, Cambridge, MA, 2006

- **Invited Seminars**

New Connections Between 4D and 5D Supersymmetric Objects, USTC, Hefei, China, April 2005.

Exact Counting of 4D BPS Black Holes, High Energy Theory Seminar, Institute for Advanced Study, Princeton, NJ, October 2005

String Theory Seminar, University of Wisconsin-Madison, October 2005

High Energy Theory Seminar, California Institute of Technology, Pasadena, CA, November 2005

Mathematical Structures in String Theory, KITP, Santa Barbara, CA, December 2005

Fun with Black Holes and Quivers, SLAC Theory Seminar, Stanford, CA, November 2005

Particle Theory Group Seminar, University of Chicago, January 2006

From CFT2/AdS3 to Black Hole/Topological String, High energy theory seminar, Brandeis University, Waltham, MA, February 2006

String/Gravity Seminar, MIT, Cambridge, MA, March 2006

Counting BPS States on the Quintic, Perimeter Institute, Waterloo, Ontario, Canada, September 2006

Superconformal Chern-Simons-Matter Theories, High Energy Theory Seminar, University of Toronto, Toronto, Ontario, Canada, May 2007

California Institute of Technology, Pasadena, CA, May 2007

Partition Functions of 3d Pure Gravity, High Energy Theory Seminar, Brown University, Providence, RI, September 2007

Theoretical Physics Seminar, University of New Hampshire, Durham, NH, October 2007

High Energy Theory Seminar, McGill University, Montreal, Quebec, Canada, November 2007

High Energy Theory Seminar, Institute for Advanced Study, Princeton, NJ, November 2007

String Theory Lunch Seminar, MIT, Cambridge, MA, December 2007

- **Teaching**

Instructor, Physics 287a, *Introduction to String Theory*, Physics Department, Harvard University, fall 2008.