

Curriculum Vitae

Personal Information

First Name: Hajar

Surname: Ebrahim Najafabadi

Title: Ms

Date of Birth: September 20th, 1980

Nationality: Iranian

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Department of Physics, MS 057

Brandeis University

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Education

1. **Ph.D.** October 2004 - August 2008

Physics, Institute for research in fundamental sciences (IPM), Tehran, Iran

Supervisor: Prof. Mohsen Alishahiha

Thesis: Extremal Black Holes in String Theory

Note: Part of the PhD done under the supervision of Prof. Michael Duff at Imperial College London,

November 16, 2006 to August 31, 2007 and May 9 to August 8, 2008.

2. **M.Sc.** Oct 2002 - Oct 2004

Physics, Sharif University of Technology, Tehran, Iran

Supervisor: Prof. Hashem Rafii-Tabar

Thesis:

Simulation of Pd Atomic Chains Formation on Tungsten Substrate
via Molecular Dynamics

3. **B.Sc.** Oct 1998 - Oct 2002

Physics, K.N.T. University of Technology, Tehran, Iran

Conferences/Workshops/Schools Attended

1. Participant, Great Lakes Strings Conference, University of Michigan, April 3-5, 2009, Ann Arbor, MI (US)
2. Participant, Stringy Reflections on LHC, Clay Mathematics Institute, October 13-16, 2008, Cambridge, MA(US)

3. Participant, IPM String School and Workshop (ISS2008), April 9-17, 2008, Isfahan, Iran.
4. Participant, RTN Winter School on Strings, Supergravity and Gauge Theories, CERN January 21-25, 2008
5. Participant, 13th International Symposium on Particles, Strings and Cosmology (PASCOS-07), Imperial College London, 2-7 July 2007, London (UK)
6. Participant, Strings 07, 25-29 June 2007, Madrid (Spain)
7. Participant, School on Attractor Mechanism, 18-22 June 2007, Frascati (Italy)
8. Participant, Fourth Regional Meeting in String Theory (Mideast 2007), 10-17 June 2007, Patras (Greece)
9. Participant, Imperial College Conference on 'Outstanding Questions for the Standard Cosmological Model', March 26 - 29, 2007, London, UK
10. Participant, IPM School and Conference on Lepton and Hadron Physics, May 15 - 20, 2006, Tehran, Iran.
11. Participant and Speaker (workshop talk), IPM String School and Workshop (ISS2006), April 10-19, 2006, Tehran, Iran.
12. Participant, String School on Superstring Theory and Related Topics held in ICTP, March 27-April 4, 2006, Miramare - Trieste, Italy.
13. Participant and Speaker (short talk), Winter School on Attractor Mechanism (SAM 2006), March 20-24, 2006, held in INFN, Frascati (Rome), Italy.
14. Participant, String School on Superstring Theory and Related Topics held in ICTP, March 14-22, 2005, Miramare - Trieste, Italy.
15. Participant, IPM String School and Workshop (ISS2005), January 5-14, 2005, Qeshm, Iran.

Visits

1. Theoretical Physics Group, Imperial College London, UK, May 9 to August 8, 2008
2. Theoretical Physics Group, Imperial College London, UK, November 16, 2006 to August 31, 2007
3. University of Cambridge, department of Applied Mathematics and Theoretical Physics (DAMTP), UK, August 23-31, 2005
4. Theoretical Physics Division, CERN, Geneva, July 29- August 22, 2005

Awards

1. Marie Curie Fellowship for three months in Theoretical Physics Group at Imperial College London, May 9 to August 8, 2008
2. the 'Young Distinguished Scientist' in Iran, June 2006
3. the first grade student among MSc graduate students at Sharif University of Technology, 2004
4. the first grade student among BSc graduate students at KNT University of Technology, 2002

Skills

1. Languages;

Persian (Mother Tongue)
English, Fluent(Diploma Certificate in English)

2. Computer;

Programming Language: Fortran
Software: Mathematica, Maple, Microsoft Office, Table Curve, Gnuplot

Publications

1. L. Borsten, D. Dahanayake, M. J. Duff, W. Rubens and H. Ebrahim, "Freudenthal triple classification of three-qubit entanglement," arXiv:0812.3322 [quant-ph].
2. L. Borsten, D. Dahanayake, M. J. Duff, H. Ebrahim and W. Rubens, "Black Holes, Qubits and Octonions," Phys. Rept. **471**, 113 (2009) [arXiv:0809.4685 [hep-th]].
3. L. Borsten, D. Dahanayake, M. J. Duff, W. Rubens and H. Ebrahim, "Wrapped branes as qubits," Phys. Rev. Lett. **100** (2008) 251602 [arXiv:0802.0840 [hep-th]].
4. M. Alishahiha, F. Ardalan, H. Ebrahim and S. Mukhopadhyay, "On 5D Small Black Holes", *JHEP* **0803**, 074 (2008); [arXiv:0712.4070 [hep-th]].
5. M. Alishahiha, H. Ebrahim, "New Attractors, Entropy Function and Black Hole Partition Function ", *JHEP* **0611**, 017 (2006); hep-th/0605279.
6. M. Alishahiha, H. Ebrahim, "Non-supersymmetric attractors and entropy function", *JHEP* **0603**, 003 (2006); hep-th/0601016.
7. H. Ebrahim, "Semiclassical strings probing NS5 brane wrapped on S^5 ", *JHEP* **0601**, 019 (2006); hep-th/0511228.
8. M. Alishahiha, H. Ebrahim, B. Safarzadeh, M. M. Sheikh-Jabbari, "Semi-classical probe strings on giant gravitons backgrounds", *JHEP* **0511**, 005 (2005) hep-th/0509160.
9. H. Ebrahim, A. E. Mosaffa, "Semiclassical string solutions on 1/2 BPS geometries", *JHEP* **0501**, 050(2005); hep-th/0501072.