

Curriculum Vitae

Notice: Since 2014 my family name has been changed from “Allahverdizadeh” to “Sepehri Rad”

Masoud Sepehri Rad (Allahverdizadeh), Ph.D.

Center for Functional Connectomics, Brain Science Institute, Korea Institute of Science and Technology (KIST), Seoul, 02792, Korea.

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PERSONAL INFORMATION:

Date of Birth:

Nationality: Iran

EDUCATION AND TRAINING:

2014-present: Postdoctoral fellowship (**Neuroscience**), Korea Institute of Science and Technology. Advisor: Prof. Lawrence B. Cohen, Yale University School of Medicine, Principal Scientist, Korea Institute of Science and Technology, lawrence.b.cohen@hotmail.com, +1 (203) 435 5892), Research title: “Voltage sensors for the Endoplasmic Reticulum”

2012-2013: Postdoctoral fellowship (**Physics**), Centro Multidisciplinar de Astrofísica-CEMTRA, Departamento de Física, Instituto Superior Técnico-IST. Universidade Técnica de Lisboa, Portugal. (Advisor: Prof. Jose P. S. Lemos, Instituto Superior Técnico, Universidade Técnica de Lisboa, Departamento de Física, Centro Multidisciplinar de Astrofísica – CENTRA, joselemos@ist.utl.pt, +351 1 8419048), Research title: “Extremal Myers-Perry black holes coupled to Born-Infeld electrodynamics”

2011-2012: Postdoctoral fellowship (**Neuroscience**), Joint project (Yale University- Korea Institute of Science and Technology). Advisor: Prof. Lawrence B. Cohen, Yale University School of Medicine, Principal Scientist, Korea Institute of Science and Technology, lawrence.b.cohen@hotmail.com, +1 (203) 435 5892), Research title: “Improving signal dynamics of fluorescent protein voltage sensors by optimizing FRET interactions”

Ph.D. 2010: (**Graduate student (Physics)**), Carl von Ossietzky Universität at Oldenburg, Oldenburg, Germany; major in theoretical Physics. (Advisor: Prof. Dr. Jutta Kunz, jutta.kunz@uni-oldenburg.de, Carl von Ossietzky University, Department of Physics, 26111 Oldenburg, Germany. Tel.: (+49)-441-798-3184 FAX: (+49)-441-798-3080), Thesis Title: “Charged Rotating Black Holes in Higher Dimensions”.

M.Sc. 2008: Shahid Bahonar University of Kerman, Kerman, Iran; major in Foundation of Physics. (Advisors: Prof. Yosof Bahrapour and Dr. Majid Rahnama), Thesis Title: "Asymptotically flat charged rotating dilaton black holes in higher dimensions".

B.Sc. 2002: Shahid Bahonar University of Kerman, Kerman, Iran; major in Applied Physics.(Advisor: Prof. Mohammad Shojai),

PROFESSIONAL EXPERIENCE:

03.2009-08.2009: Instructor, Azad University of Shahriyar. Classical Mechanics

03.2007-08.2007: Teaching Assistant, Shahid Bahonar University of Kerman. Classical Mechanics, Course Instructor: Prof. Dr. Mohammad agha.Bolorizadeh.

Guest Editor of "Advances in High Energy Physics" (SCIE Journal):

Special Issue "**Classical and Quantum Gravity and Its Applications**", (2017).

Guest Editors: Seyed H. Hendi, Christian Corda, S. Habib Mazharimousavi, Davood Momeni, **Masoud Sepehri Rad**, and Emmanuel N. Saridakis

Book chapter:

Douglas Storace, **Masoud Sepehri Rad**, Zhou Han, Lei Jin, Lawrence B. Cohen, Thom Hughes, Bradley J. Baker, and Uhna Sung. Genetically encoded protein sensors of membrane potential. In: Membrane Potential Imaging in the Nervous System and Heart, ed. by M. Canepari, D. Zecevic, and O. Bernus. **Springer**, (2015).

PUBLICATIONS (Neuroscience):

1. **Masoud Sepehri Rad**, Lawrence B. Cohen, Oliver Braubach, Bradley J. Baker. Monitoring voltage fluctuations of intracellular membranes, *Scientific Reports*, **8**, 6911 (2018)
doi:10.1038/s41598-018-25083-7.
2. **Masoud Sepehri Rad**, Yunsook Choi, Lawrence B. Cohen, Bradley J. Baker, Sheng Zhong, Douglas A. Storace, Oliver R. Braubach. Voltage and Calcium Imaging of Brain Activity, *Biophysical Journal*, Volume **113**, Issue 10, 2160-2167, (2017).
3. Storace, D., **Sepehri Rad, M.**, Kang, B., Cohen, L.B., Hughes, T., and Baker, B.J. Toward Better Genetically Encoded Sensors of Membrane Potential. *Trends in Neuroscience* **39**, 277-289 (2016).
4. Uhna Sung, **Masoud Sepehri-Rad**, Lei Jin, Thomas Hughes, Lawrence B. Cohen, Bradley J. Baker, Developing Fast Fluorescent Protein Voltage Sensors by Optimizing FRET Interactions. *PLoS One* **10**, e0141585, doi: 10.1371/journal.pone.0141585 (2015).

PUBLICATIONS (Physics):

5. **Masoud Sepehri Rad**, Seyed Hossein Hendi, Ken Matsuno, Ahmad Sheykhi. Extremal Einstein–Born–Infeld black holes in dilaton gravity. *Annals of Physics* **363**, 485-495 (2015).
6. S. H. Hendi, A. Sheykhi, **M. Sepehri Rad**, K. Matsuno. Slowly rotating dilatonic black holes with exponential form of nonlinear electrodynamics. *General Relativity and Gravitation* **47** (2015).
7. Seyed H. Hendi, **M. Sepehri Rad**, Five dimensional Myers-Perry black holes with nonlinear electrodynamics, *Phys. Rev. D* **90**, 084051 (2014).
8. Seyed H. Hendi, **M. Sepehri Rad**, Slowly Rotating Black Holes with Nonlinear Electrodynamics in Five Dimensions, *International Journal of Modern Physics D* Vol. **23**, No. 11, 1450095 (2014).
9. **M. Allahverdizadeh**, Seyed H. Hendi, Ahmad. Sheykhi, Extremal Myers-Perry black holes in Born-Infeld-dilaton theory, *Phys. Rev. D* **89**, 084049 (2014).
10. **M. Allahverdizadeh**, Jose P. S. Lemos, A. Sheykhi, Extremal Myers-Perry black holes coupled to Born-Infeld electrodynamics in five dimensions, *Phys. Rev. D* **87**, 084002(2013).
11. **M. Allahverdizadeh**, H. Hendi, Jose P. S. Lemos, A. Sheykhi, Extremal Myers-Perry black holes coupled to Born-Infeld electrodynamics in odd dimensions, *International Journal of Modern Physics D* Vol. **23**, No. 4, 1450032 (2014).
12. **M. Allahverdizadeh**, Jutta. Kunz and F. Navarro-Lerida, Extremal Charged Rotating Dilaton Black Holes in Odd Dimensions, *Phys. Rev. D* **82**, 064034 (2010).
13. **M. Allahverdizadeh**, K. Matsuno and A. Sheykhi, Charged Rotating Kaluza-Klein Black Holes in Dilaton Gravity, *Phys. Rev. D* **81**, 044001(2010).
14. **M. Allahverdizadeh**, Jutta. Kunz and F. Navarro-Lerida, Extremal Charged Rotating Black Holes in Odd Dimensions, *Phys. Rev. D* **82**, 024030 (2010).
15. A. Sheykhi, **M. Allahverdizadeh**, Higher Dimensional Charged Rotating Dilaton Black Holes, *Gen. Rel. Grav.* **42**, pp 367–379 (2010).
16. A. Sheykhi, **M. Allahverdizadeh**, Higher dimensional slowly rotating dilaton black holes in AdS spacetime, *Phys. Rev. D* **78**, 064073(2008)
17. A. Sheykhi, **M. Allahverdizadeh**, Y. Bahrapour, M. Rahnama, Asymptotically flat charged rotating dilaton black holes in higher dimensions, *Phys. Lett. B* **666**, 82-85(2008).
18. Seyed H. Hendi, **M. Allahverdizadeh**, Slowly Rotating Black Holes with Nonlinear Electrodynamics, *Advances in High Energy Physics*, 390101 (2014).