

# Curriculum Vitae



## Behnam Pourhassan

Professor in Elementary Particles Physics  
Damghan University, Damghan, Iran

**H-index: 43**

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## **Education**

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B. S of Physics Department, Mazandaran University, Babolsar, IRAN 2001-2005

M. S of Physics Department, Mazandaran University, Babolsar, IRAN 2005-2007

Ph. D of Physics Department, Mazandaran University, Babolsar, IRAN 2008-2012

## **Positions**

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Visitor as sabbatical research, High energy physics department, IPM, Tehran, IRAN 2011-2012

Postdoctoral position, Istanbul Technical University, Istanbul, TURKEY 2014-2015

Faculty member, Damghan University, (current position), Damghan, Iran 2015-now

## **Personal**

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First Name: Behnam

Last Name: Pourhassan

Date of Birth: March – 22– 1982

Place of Birth: Tehran, Iran

Marital Status: Married

## **Languages**

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Persian: Mother tongue

English: Fluent

## **Responsibilities**

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- [1] Head of nuclear and particle physics department, Damghan University, 2019-2022
- [2] Outreach Director of Canadian Quantum Research Center, Vernon, Canada 2020-now
- [3] Funder and Director in Charge of JHAP (<https://jhap.du.ac.ir/>), 2021
- [4] Organizer of "The 1st International Conference of Holography and its Applications" 2022 (<https://holography.du.ac.ir>)
- [5] Consultant of Damghan University president 2019-now
- [6] Damghan University School of Physics Web-page designer (En version: <http://en.du.ac.ir/school-of-physics/>).
- [7] Head of Damghan University Library (Damghan University Press) 2022-now
- [8] Organizer of "The 2nd International Conference of Holography and its Applications" 2023 (<https://holography2023.du.ac.ir>)

## **Research Interest**

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**Theoretical physics:** String Theory, AdS/CFT Correspondence, Non-Commutative Geometry, Thermodynamics and Statistics, Black hole, Cosmology, Dark energy models,

## **Work Shops**

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- [1] Spring School on Superstring Theory and Related Topics 23 March 2009, Trieste – Italy.
- [2] IPM String School and Workshop, April 9 - 18, 2009, Tehran – IRAN
- [3] Second IPM School on Applied AdS/CFT October 12-13, 2011 (Mehr 20-21, 1390)
- [4] IPM international school and workshop on particle physics (IPP12): Neutrino Physics and Astrophysics, September 26- October 1, 2012
- [5] IPM international school and workshop on Particle Physics (IPP13): Flavor physics and dark matter, May 4<sup>th</sup>- 6<sup>th</sup>, 2013, Tehran – IRAN
- [6] 20th IPM Physics Spring Conference Institute for Research in Fundamental Sciences (IPM) May 22-23, 2013 (1-2 Khordad 1392)
- [7] 13th Workshop on Quantization, Dualities and Integrable Systems 19-20 April 2014, Koç University, Istanbul, Turkey
- [8] Recent Developments in Supergravity Theories, June 18-20 2014, Boğaziçi University, Istanbul, Turkey

## **References**

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Prof. Jafar Sadeghi (MS and PhD Supervisor): [pouriya@ipm.ir](mailto:pouriya@ipm.ir)  
Prof. Emre Onur Kahya (PD Supervisor): [eokahya@itu.edu.tr](mailto:eokahya@itu.edu.tr)  
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Prof. Izzet Sakalli: [izzet.sakalli@emu.edu.tr](mailto:izzet.sakalli@emu.edu.tr)

## Awards

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- Outstanding Researcher of the Year, Faculty of Physics, Damghan University, 2015, 2016, 2019, 2020, 2021, 2022
- Highest h-index at Damghan University, 2016
- Outstanding Researcher at the 3rd Damghan Science and Technology Week Festival, Semnan Province, 2017
- Included in the list of the top 50 researchers in Iran, Iran Elite Federation, 2018
- Included in the list of the top 75 researchers in Iran, Iran Elite Federation, 2019
- Included in the list of the top 2% of world's highly cited researchers, 2019, 2020, 2021
- Included in the list of the world's most cited scientists and the top 2% of highly cited researchers in the last 25 years statistics, 2020 to now
- Included in the list of the top 100 researchers in Iran, Iran Elite Federation, 2021

## Papers

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- [1] J. Sadeghi, A. R. Amani, B. Pourhassan, "Higher-Order Supersymmetric Quantum Mechanics and Infinite Well Potential", African Journal of Mathematical Physics Vol 2 No 1(2005)53-56.
- [2] J. Sadeghi, B. Pourhassan, "Relativistic Particles And Commutator Algebras With Twisted Poincare Transformation", Chaos, Solitons and Fractals 31 (2007) 557–560.
- [3] J. Sadeghi, A. Banijamali, B. Pourhassan, "Interpolating Lagrangian and Boundary Condition For the Superstring", ACTA PHYSICA POLONICA B Vol. 38 No 10 (2007) 3143.
- [4] J. Sadeghi, M.R. Setare, B. Pourhassan, "Two Dimensional Black Hole Entropy", Eur. Phys. J. C 53 (2008) 95–97.
- [5] J. Sadeghi, B. Pourhassan, A. Banijamali, "Charged Superstring Attached Two Different D-Branes", Chaos, Solitons and Fractals 38 (2008) 615–619.
- [6] J. Sadeghi and B. Pourhassan, "Factorization Method And Solution Of The Non-Central Modified Kratzer Potential", EJTP 5, No. 17 (2008) 197-206.
- [7] J. Sadeghi and B. Pourhassan, "Drag Force Of Moving Quark At  $\mathcal{N}= 2$  Supergravity", JHEP12(2008)026.
- [8] J. Sadeghi, M. R Setare and B. Pourhassan, "Entropy Of Extremal Black Holes In Two Dimensions", Acta Physica Polonica B Vol. 40 No 2 (2009) 251.
- [9] J. Sadeghi, M. R. Setare, B. Pourhassan and S. Heshmatian, "Drag Force of Moving Quark in STU Background", Eur. Phys. J. C 61 (2009) 527–533.
- [10] J. Sadeghi and B. Pourhassan, "Representation of  $su(1,1)$  Algebra and Hall Effect", EJTP 6, No. 21 (2009) 157.
- [11] J. Sadeghi, H. Saadat and B. Pourhassan, "Relation between dark matter density and temperature with power law", Chaos, Solitons and Fractals 42 (2009) 1080–1083.
- [12] M. R. Pahlavani and B. Pourhassan, "Horizon Structure of the  $AdS_5$  Line Element After the Collision of Two Shock Waves", International Journal of Theoretical Physics 48 (2009) 2900–2903.
- [13] J. Sadeghi, M. R. Setare and B. Pourhassan, "Drag force with different charges in STU background and AdS/CFT", J. Phys. G: Nucl. Part. Phys. 36 (2009) 115005
- [14] J. Sadeghi and B. Pourhassan, "Entropy Function in the Liouville Theory", International Journal of Theoretical Physics 48 (2009) 3526–3531

- [15] J. Sadeghi and B. Pourhassan, "Higher Order Corrections of 2D Gravity on  $S_2$ ", *International Journal of Theoretical Physics* 48 (2009) 3629–3634
- [16] J. Sadeghi and B. Pourhassan, "Factorization Method and Hydrogen-Like Atom in Constant Electromagnetic Field", *African Physical Review*, 3: 0013 (2009) 77
- [17] M. R. Pahlavani and B. Pourhassan, "Non-commutative Geometry in Massless and Massive Particles", *International Journal of Theoretical Physics* 49 (2010) 1195–1199
- [18] J. Sadeghi, A. Chatrabhuti and B. Pourhassan, "Quasi-normal Modes of  $AdS_5$  Black Hole at  $N=2$  Supergravity", *International Journal of Theoretical Physics* 50 (2011) 129–139
- [19] J. Sadeghi and B. Pourhassan, "Jet-quenching of the rotating heavy meson in a  $N=4$  SYM plasma in presence of a constant electric field" *Int J Theor Phys* (2011) 50:2305–2316
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- [21] A. R. Amani and B. Pourhassan "FRW Cosmology and Static Extra Dimension With Non-zero Cosmological Constant", *Int. J. Theor. Phys.* (2012) 51:49–54
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- [23] J. Sadeghi and B. Pourhassan, "Mass Spectrum of Charged Superstring Attached Angled D-Branes", *Canadian Journal of Physics*, 89:(10) 1023-1025 (2011).
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## **Conference papers**

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