

# Kamal Hajisharifi

Assistant professor of physics in Kharazmi University, Tehran, Iran

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## *Curriculum Vitae*



## ***Education***

۲۰۱۱-۲۰۱۵     **PhD student in plasma physics, *Kharazmi University, Tehran, Iran, 19.43/20***

Advisor: Prof. Hassan Mehdian

Research: currents plasma instabilities in plasma systems

- Ranked first in university entrance exam for Phd degree in physics in year 2011.
- Ranked first among all Masters students of Physics Department in 2012,2013,2014,2015

۲۰۰۹-۲۰۱۱     **MSc in nuclear physics, *Isfahan University Of Technology, Isfahan, Iran, 19.21/20***

Advisor: Prof. Akbar Parvazian

Research: investigation of laser-plasma interaction with 3D PIC simulation code

- Ranked first among all Masters students of Physics Department in 2010,2011.

۲۰۰۵-۲۰۰۹     **BSc in physics, *Shahrekord University, Shahrekord, Iran, ۱۷.۰۸/۲۰***

- Ranked first among all students of Physics Department in 2006,2007,2009.

۲۰۰۱-۲۰۰۵     **Diploma in Mathematics and Physics, *Emmam Khomeini Highschool, Broujen, Iran***

Emmam Khomeini is the Broujen branch of NODET (National Organization for Development of Exceptional Talents).

## *Awards and Honors*

- ۲۰۱۴-۲۰۱۵ **Iran's National Elites Foundation(INEF) Fellowship**, INEF fellowship for the academic year of 2014-2015.
- ۲۰۱۵ **۱<sup>st</sup> Rank**, Achieving the highest GPA among all university Physics Phd students.
- 2014 Iran's National Elites Foundation member**, since 2014
- ۲۰۱۱-۲۰۱۵ **Talented member**, Talented member of Kharazmi University, Tehran, Iran
- ۲۰۱۱ **۱<sup>st</sup> Rank**, PhD entrance exam in Physics of Kharazmi University
- ۲۰۱۱ **۱<sup>st</sup> Rank**, Achieving the highest GPA among all university Physics graduate students.
- ۲۰۰۹-۲۰۱۱ **Talented member**, Talented member of Isfahan University of Technology, Isfahan, Iran
- ۲۰۰۹ **۱<sup>st</sup> Rank**, Achieving the highest GPA among all university Physics students.
- ۲۰۰۵-۲۰۰۹ **Talented member**, Talented member of Shahrekord University, Shahrekord, Iran

## *Professional Experience*

- 2015 Employment**, Assistant professor of Physics in Kharazmi University.
- ۲۰۱۵ **Advisor of PhD students**, Advisor of PhD students in Kharazmi university.
- ۲۰۱۴-۲۰۱۵ **Researcher**, Working as a researcher a manager in institute for plasma research's lab
- ۲۰۱۲ **Intern/Researcher**, Working as a researcher at institute for plasma research, Tehran, Iran.
- ۲۰۱۲-۲۰۱۵ **Network Administrator**, Administration of institute for plasma research's Computer Site.

## **Publication**

- ۲۰۱۰ Mehdiان, H., **Hajisharifi, K.**, & Hasanbeigi, A., "Induced Maximum Magnetic Field in a Cosmic Outflow System by Relativistic Current Filamentation Instability: Exact Analytical Model", *The Astrophysical Journal*
- ۲۰۱۰ MEHDIAN, H., A. KARGARIAN, A. HASANBEIGI, and **K. HAJISHARIFI**. "A relativistic PIC model of nonlinear laser absorption in a finite-size plasma with arbitrary mass and density ratios.", *Laser and particle beams journal*
- ۲۰۱۰ Mehdiان, H., A. Kargarian, and **K. Hajisharifi**. "Kinetic (particle-in-cell) simulation of nonlinear laser absorption in a finite-size plasma with a background inhomogeneous magnetic field." *Physics of Plasmas*
- ۲۰۱۰ **Hajisharifi, K.**, H. Mehdiان, and A. Hasanbeigi. "Maximum magnetic field in cosmic outflows systems." In *Plasma Sciences (ICOPS), 2015 IEEE International Conference*
- ۲۰۱۰ Mehdiان, H., **Hajisharifi, K.**, & Hasanbeigi, A., "The general dispersion relation of induced streaming instabilities in quantum outflow systems" revised in AIP Advance journal
- ۲۰۱۴ Mehdiان, H., **K. Hajisharifi**, and A. Hasanbeigi. "The effect of plasma background on the instability of two non-parallel quantum plasma shells in whole K space." *Physics of Plasmas*
- ۲۰۱۴ Mehdiان, H., A. Kargarian, and **K. Hajisharifi**. "Spatiotemporal evolution of a thin plasma foil with Kappa distribution." *Laser and Particle Beams*
- ۲۰۱۴ Mehdiان, Hasan, Ameneh Kargarian, **Kamal Hajisharifi**, and Ali Hasanbeigi. "A spatiotemporal study of the relativistic nonlinear effects on laser absorption by a finite-size magneto plasma." *The European Physical Journal D*
- ۲۰۱۳ Mehdiان, H., A. Hasanbeigi, and K. Hajisharifi. "The instability of two non-parallel plasma shells in quantum plasma." *Astrophysics and Space Science*
- ۲۰۱۳ Mehdiان, H., **K. Hajisharifi**, and A. Hasanbeigi. "Quantum instability of two non-parallel flows: Parallel wave propagation." *Physics Letters A*
- ۲۰۱۳ Parvazian, A., and **K. HajiSharifi**. "Investigation of electron heating in laser-plasma interaction." *Iranian Journal of Physics Research*