




## CURRICULAM-VITÆ

Title	Dr.	First Name	Rohtash	Last Name	Singh	Photograph
Designation	ASSISTANT PROFESSOR					
Address	Department of Physics, Acharya Narendra Dev College, (University of Delhi) Govindpuri, Kalkaji, New Delhi 110019					
Phone No Office	Fax: +91-(0)11-26294540					
Residence Mobile	7503151618					
Email/ Web-Page	rohtashsingh@andc.du.ac.in					
Educational Qualifications						
Degree	Institution				Year	
<b>B.Sc.</b>	Maharshi Dayanand University Rohtak, (HR.)				<b>2001</b>	
<b>M.Sc. (Physics) with Electronics</b>	Kurukshetra University Kurukshetra (HR.)				<b>2003</b>	
<b>Ph.D. (Physics)</b>	Indian Institute of Technology Delhi				<b>2011</b>	
Career Profile						
* Assistant Professor of Physics at Miranda House College, 02.01.2012 to 12.06.2012. * Assistant Professor of Physics at Acharya Narendra Dev College since July 23, 2012.						
Administrative Assignments						
Areas of Interest / Specialization						
* Laser Driven Particle Acceleration * Terahertz Radiation Generation * Laser-Cluster Interaction * Self-focusing in Plasmas * Parametric Instabilities in Plasmas						
Subjects Taught						
Mechanics, Thermal Physics & Statistical Mechanics, Electromagnetic Theory, Waves and Optics						
Research Guidance						

**RESEARCH PAPERS IN INTERNATIONAL REFEREED JOURNALS**

- ❖ K K Magesh Kumar, **Rohtash Singh** and Vinod Krishan, "Plasma wave aided two photon decay of an electromagnetic wave in a plasma", Phys. Plasmas 21, 112112 (2014). [ Impact Factor: 2.215, ISSN: 1089-7674]
- ❖ Manoj Kumar, **Rohtash Singh** and Updesh Verma, "Bremsstrahlung soft X-ray emission from clusters heated by a Gaussian laser beam" Laser Part. Beams 32, 9 (2014). [ Impact Factor: 2.016, ISSN: 0263-0346]
- ❖ **Rohtash Singh** and V. K. Tripathi, "Parametric coupling of lower hybrid wave with gyrating ion beam driven ion cyclotron instability in a plasma", Phys. Plasmas 20, 072112 (2013). [ Impact Factor: 2.215, ISSN: 1089-7674]
- ❖ **Rohtash Singh**, A. K. Sharma and V. K. Tripathi, "Grating formation by a high power radio wave in near-equator ionosphere", Phys. Plasmas 18, 112101(2011). [ Impact Factor: 2.215, ISSN: 1089-7674]
- ❖ **Rohtash Singh** and A. K. Sharma, "Ponderomotive acceleration of electrons by a self focused laser pulse", Phys. Plasmas 17, 123109(2010). (This publication has been selected in Virtual Journal of Ultrafast Science) [ Impact Factor: 2.215, ISSN: 1089-7674]
- ❖ **Rohtash Singh** and A. K. Sharma, "Ponderomotive acceleration of electrons by a whistler pulse", Appl Phys B 100, 535 (2010). [ Impact Factor: 1.782, ISSN: 1432-0649]
- ❖ **Rohtash Singh** and A. K. Sharma, "Anomalous absorption of whistler in rippled density plasma" Phys. Scr. 82, 015503 (2010). [ Impact Factor: 1.032, ISSN: 1402-4896]
- ❖ **Rohtash Singh**, A. K. Sharma and V.K. Tripathi, "Relativistic self distortion of a laser pulse and ponderomotive acceleration of electrons in an axially inhomogeneous plasma", Laser Part. Beams 28, 299 (2010). [ Impact Factor: 2.016, ISSN: 0263-0346]
- ❖ **Rohtash Singh** and A. K. Sharma, "Self focusing of a whistler propagating at an

angle to magnetic field in a plasma” Phys. Scr.79, 065502 (2009). [ Impact Factor: 1.032, ISSN: 1402-4896]

- ❖ Rajendra Prasad, **Rohtash Singh** and V. K. Tripathi, “Effect of an axial magnetic field and ion space charge on laser beat wave acceleration and surfatron acceleration of electrons”, Laser Part. Beams 27, 459 (2009). [ Impact Factor: 2.016, ISSN: 0263-0346]

### Conference/ Presentations/Workshops

- ❖ Participated in the 5<sup>th</sup> International Conference on the Frontiers of Plasma Physics and Technology, April 18-22, 2011, Singapore, Republic of Singapore.
- ❖ Participated and acted as Scientific Secretary for a session, in the 1<sup>st</sup> International Particle Acceleration Conference 2010 (IPAC’10), May 23-28, 2010, Kyoto International Conference Centre, Kyoto, Japan.
- ❖ Delivered a presentation in ISRO-Respond Programme at Physical Research Laboratory Ahmedabad, March 19-20, 2010.
- ❖ Participated in Summer College on Plasma Physics at The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, August 10-28, 2009.
- ❖ Participated in International Workshop on the High Energy Density Science Endstation and Associated Instrumentation at the European XFEL, March 30-April 01, 2009, St. Catherine’s college, University of Oxford, UK.
- ❖ Participated in the 23<sup>rd</sup> National Symposium on Plasma Science and Technology, BARC Mumbai, Dec 10-13, 2008.
- ❖ Participated in the 22<sup>nd</sup> National Symposium on Plasma Science and Technology, Ahmedabad, Dec 06-10, 2007.
- ❖ Participated in the National Workshop on Self-focusing of Electromagnetic Waves in Plasma, University of Lucknow, Lucknow, Nov 19-25, 2007.

### Research Projects (Major Grants/Research Collaboration)

### Awards and Distinctions

<b>Association With Professional Bodies</b>
Life Time Member of Plasma Science Society of India (PSSI).
<b>Other Activities</b>