



Faculty Details Performa Web-site

Title	Mr	First Name	Brijender	Last Name	Dahiya	Photograph
Designation	Assistant Professor					
Address	RZ20E/1A, Raj Nagar Part-1, Palam Colony, New Delhi-110045					
Phone No Office						
Email	brijender@ss.du.ac.in					
Educational Qualifications						
Degree	College/Department				year	
B. Sc.	Hindu College, Sonipat, Haryana				1998	
M. Sc.	Jamia Millia Islamia, New Delhi				2001	
Ph.D.	Delhi University				Perusing	
Career Profile						
<ul style="list-style-type: none"> ➤ Working as Assistant Professor in Swami Shradhdhanand College, Alipur, Delhi, (D.U.) from Jan 2007 to continue. ➤ Worked as lecturer in Shri Balwant Institute of Technology, Sonipat from August 2006 to Jan2007. ➤ Worked as lecturer in Hindu college, Sonipat from August 2005 to April 2006. ➤ Worked as lecturer in D.A.V.CentenaryCollege, Faridabad from August 2002 to Feb 2003. ➤ Worked as PGT (Physics) in A.V.N. Sr. Sec.School, Faridabad from September 2003 to May 2005. 						
Current Assignment						
Working as Assistant Professor in Swami Shradhdhanand College, Alipur, Delhi, (D.U.)						
Administrative Assignments Held						

Areas of Interest / Specialization
Quantum Mechanics, Atomic and Molecular Physics (Theoretical)
Subjects Taught
Mechanics, Electricity & Magnetism, Digital Analog Systems & Instrumentation
Research Guidance
None
Publications Profile
<ol style="list-style-type: none"> 1. <i>Ionization of the H atom in ultrashort chirped laser pulses</i>, Vinod Prasad, Brijender Dahiya and Koichi Yamashita, Physica Scripta, ISSN:1402-4896, Impact Factor:1.032, vol.82 (2010), pp. 055302, 2. <i>Dynamics of Particle in Time Varying Potential Due to Chirped Laser Pulse</i>, * Brijender Dahiya and Vinod Prasad, Journal of Modern Physics, ISSN:2153-1196, Impact Factor: 0.28 vol.1(issue-6), (2010) pp. 372 3. <i>Modifications of laser field assisted inter sub-band transitions in the coupled quantum wells due to static electric field</i>, Vinod Prasad and Brijender Dahiya, Physica Status Solidi B, ISSN: 1521-3951, Impact Factor :1.489, vol. 248, (2011) pp. 1727 4. <i>Ionization and population transfer in lithium Rydberg states with ultrashort chirped laser pulses</i>, Brijender Dahiya, Dipti Munjal and Vinod Prasad, Indian Journal of Physics, ISSN:0973-1458, Impact Factor: 1.785, vol.85, (2011)pp. 1721

5. *l-mixing collision in presence of microwave field, **
Urvashi Arya, **Brijender Dahiya** and Vinod Prasad,

Journal of Modern Physics, ISSN:2153-1196, Impact Factor: 0.28, vol.**3(issue-1)**, (2012) pp.28
6. *Pulse shape effect of delayed pulse on Non-adiabatic rotational excitation,*
Urvashi Arya, **Brijender Dahiya** and Vinod Prasad,

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, ISSN:1386-1425, Impact Factor: 2.000, Vol. **95** (2012) pp. 491
7. *Absorption Spectra of Artificial Atoms in Presence of THz Fields.*[@]
Brijender Dahiya, Kriti Batra and Vinod Prasad,

International Journal of Engineering and Applied Sciences, ISSN: 2010-3980, Impact Factor: NA, Vol. **6** (2012), pp269
8. *Dynamics of intersubband transitions in triangular quantum wells due to static magnetic and laser fields.*
Brijender Dahiya, Vinod Prasad and Koichi Yamashita,

Journal of Luminescence, ISSN:0022-2313, Impact Factor: 2.144 vol. **136** (2013) pp. 240–248
9. *Non-adiabatic rotational excitation of dipolar molecules in presence of delayed pulses.*
Urvashi Arya, **Brijender Dahiya** and Vinod Prasad

Journal of Chemical Sciences, ISSN: 0974-3626, Impact Factor 1.3, vol. 125 (2013) pp. 1213
10. *Dynamics of orientation of adsorbed polar molecules in static electric and laser field.*
Brijender Dahiya, Ashish Tyagi and Vinod Prasad

Molecular Physics, ISSN:1362-3028, Impact factor:1.67, Vol. 112, No. 12, PP. 1651–1658, (2014)
11. *Shannon information entropy sum of the confined hydrogenic atom under the influence of an electric field.*
S. J. C. Salazar, H. G. Laguna, **B. Dahiya**, V. Prasad and R. P. Sagar

The European Physical Journal D, ISSN: 1434-6060, Impact factor: 1.425, Vol. 75:127 (13 pages) (2021)

[@] **Delivered a talk in International Conference on Quantum, Atomic, Molecular and Plasma Physics, Madrid, Spain 2012 (Funded by DST)**

* One of the results of these papers was published on the cover page of the journal.

Conference Organization/ Presentations

Posters Presented:-

- *Dynamics of H-atom in ultrashort chirped laser pulses* in NCAAMNP, MMH College, U.P.
- *Rotational dynamics of Polar diatomic molecules in presence of external fields* in NCAAMNP, MMH College, U.P.
- *Non-adiabatic rotational excitation in presence of delayed zero area phase modulated pulse* in International Conference CDAMOP, November 2011, New Delhi

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- Attended DAE-BRNS National Symposium on Atomic, Molecular and Optical Physics, IUAC, New Delhi, February 2009
- Delivered a talk on *Ionization and population transfer in lithium Rydberg states with ultrashort chirped laser pulses* in NCAAMNP, MMH College, Ghaziabad(U.P.), November 2009
- Practical session in National Workshop on Computational sciences, University of Delhi, July 2010
- Attended international conference CDAMOP, November 2011, New Delhi and presented a poster.
- Delivered a talk on “*Absorption Spectra of Artificial Atoms in Presence of THz Fields*” in ICQAMPP-Madrid, Spain, 2012 (Funded by DST, Govt. of India)
- Participated in international conference “Light Cone 2012”, December 2012 held at University of Delhi, Delhi, India
- Delivered a talk on “**Quantum Dots**” in International Conference on Nanoscience and Nanotechnology-2013 (ICNN-2013) November 2013, held at Babasaheb Bhimrao Ambedkar University, Lucknow, U.P., India
- Delivered a talk on “Role of photodiode in Energy Conservation” in National Conference on Electrical Energy: Safety & Conservation January 2016, held at SSN College, University of Delhi, Delhi, India
- Attended 3rd International Conference on Condensed Matter & Applied Physics (ICC-2019) held at Bikaner, Rajasthan, India

Research Projects (Major Grants/Research Collaboration)

None
Awards and Distinctions
None
Association With Professional Bodies
None

Editorial Experience
None
Reviewer
None
Other Activities