

Date: Oct. 1, 2015.

## CURRICULUM – VITAE

**VINOD PRASAD**

### **Personal Information:**

Date of Birth: 1<sup>st</sup> June 1963

Citizenship: Indian

Present Position: Associate Professor (Physics)

Official Address: Department of Physics  
SSNC  
University of Delhi  
Delhi-110036., INDIA

Address for Correspondence: 12-D, Platinum Encalve  
Sector – 18, Rohini  
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E-mail address: [vijit\\_vin@yahoo.co.in](mailto:vijit_vin@yahoo.co.in); [vprasad@ss.du.ac.in](mailto:vprasad@ss.du.ac.in)

Date of Appointment in the College: 1.1.1998 (Temporary); 13.12.1999  
(permanent)

Total Teaching Experience: : about 22 years

Native Place: Village: Punar; P. Rudraprayag (Uttarakhand)

### **Courses taught:**

- (i) Electricity and Magnetism (course-I)
- (ii) Mathematical Physics (course-I,II & III)
- (iii) Electromagnetic Theory (Course – VI).
- (iv) Atomic and Molecular Physics(Course V)
- (v) Waves Oscillations and Optics (Course-II)

## **Education:**

1. B.Sc. in Physics, Chemistry and Mathematics, 1981, University of Garhwal, Srinagar, India.
2. M.Sc. in Physics 1983, University of Garhwal, Srinagar, India.
3. Master of Philosophy in Physics, 1986, University of Delhi, Delhi, India.
4. Ph.D. in Physics 1991, Department of Physics & Astrophysics, University of Delhi, Delhi-110007. INDIA. **Thesis Title: Atomic and Molecular Processes in the Presence of Laser Field.**

## **Fellowship and Awards:**

**Recipient of Best Teacher Award : Delhi Government award for Delhi University teachers 2014-15. (A cash prize of Rs. 100000/ , citation and a medal)**

**National Scholarship 1977.**

**Junior Research Fellow of CSIR, India, 1987-1989.**

**Senior Research Fellow of CSIR, India, 1989-1992.**

**Post-Doctoral Research Associate of CSIR, India, 1992-1994.**

Member International Centre for Theoretical Physics (ICTP), Trieste, Italy, India Chapter, membership No. 258.

Member Committee of Courses for B.Sc.(H), M.Sc. and Research, Delhi University, Delhi-110007, India, from July 2001 to June 2003.

Member Organizing Committee (**Treasurer**) “International Conference on Atomic, Molecular and Chemical Physics with applications” (CDAMCP), held at University of Delhi, Delhi-110007, India, March 20-22, 2002.

Member organizing Committee (**Treasurer**) “2<sup>nd</sup> International Conference on Atomic, Molecular and Optical Physics with applications” (CDAMOP), held at University of Delhi, Delhi-110007, India, March 21-23, 2006.

**Co-convener** National Workshop on Computational Science, University of Delhi, India, July1-14, 2010.

Member organizing Committee “3rd International Conference on Current Development in Atomic, Molecular, Optical and Nano Physics with Application (CDAMOP) (14-16, Dec 2011) University of Delhi, Delhi- 110007, India.

Member organizing Committee (**Treasurer**) International Light-Cone Conference 2012 (LC2012-II) at the Department of Physics & Astrophysics, University of Delhi, Delhi-110007, India. 10-14 December 2012 University of Delhi, Delhi-110007, India.

## **International Scientific Positions**

**Visiting scientist International center for Theoretical Physics, Trieste, Italy, July-Aug.1993.**

**Visiting JSPS (Japan Society for promotion of Sciences) Fellow at the University of Tokyo, Japan, 2004-2005.**

**Visiting Scientist, University of Tokyo, Japan, Oct.-Nov,2006.**

**Visiting Scientist, University of Tokyo, Japan, Sept.-Oct,2007.**

**Invitation to Visit , University of Sherbrooke, Quebec Canada, May2008-Nov.2008.**

**Invitation to Visit Institute of Physics, Budapest, Hungary, April 2011.**

**Visiting Scientist, University of Halle, Halle, Germany May-July 2012.**

### **List of Students Awarded Ph.D. :**

- 1. Dr. M. Gambhir, Dept. of Physics and Astrophysics, University of Delhi**
- 2. Dr. U. Arya, Dept. of Physics and Astrophysics, University of Delhi**

**List of Students Pursuing Ph.D. :**

1. Mr. Ashish Tyagi,
2. Mr. Brijender Dahiya
3. Ms. Anjali Mann
4. Ms. Dipti Munjal (to be registered)

**List of Students awarded Post-doctoral fellowship:**

**One (Dr. U. Arya) Post-doctoral fellowship of UGC; first one to be awarded to a Delhi University College-2014**

**List of Student awarded DST Women Scientist Scheme –A Project for Ph.D.  
Ms. Dipti Munjal**

**List of Students completed M.Tech. Projects:**

**Ms. Prajnashree Bal, School of Basic and Applied Sciences, GGSIP University, Dwarka (Jan.2014-Aug.2014)**

**List of Students completed B.Tech. Summer Projects:**

**Mr. Rohan Trivedi, Petroleum University, Dehradun (May-June 2011)**

**List of Students completed M.Sc. Summer Projects:**

1. Ms. Neelam Tyagi
2. Ms. Nagma

**REVIEWER INTENATIONAL JOURNALS:**

**Physics Letters A,  
Journal of atomic molecular and optical physics( Hindawi),  
Journal of Luminescence,  
Optics Communications,  
Superlattices and Microstructures  
Indian Journal of Pure and Applied Physics.  
Indian Journal of Physics  
Optics and Photonics Journal  
Physical Science International Journal  
The European Journal of Physics-Plus**

## **Research Projects :**

1. Atomic and molecular collisions in the presence of laser fields (Council of scientific and Industrial Research, New Delhi India, 1992-1996))
2. Atomic Processes in plasma ( Department of Science and Technology, New Delhi, India 2003-2006)
3. Molecules in strong fields: JSPS , at The University of Tokyo, Japan (2004-2005).

## **Research Interest:**

- (i) Laser assisted collision processes; Multi-photon excitation and ionization of atoms and Molecules; Energy transfer processes, atomic structure calculations etc.
- (iii) Optical transitions in semiconductor hetero-structures.
- (iii) Control of dissipation in the presence of chirped laser pulses.
- (iv) Manipulation of molecules in inhomogeneous fields.

## **Computational Experience:**

I have used PC, VAX and IBM mainframes. I have sound knowledge of UNIX and DOS operating systems.

I have extensively used FORTRAN and MATLAB for scientific computing

I have employed graphics packages including MS office tools for my work.

## **Contribution in International Conferences:**

1. International Conference on Physics of Electronic and Atomic Collisions, New York, USA, July 26- Aug 5, 1989.
2. Workshop on Condensed Matter Physics, ICTP, Trieste, Italy, July-Aug. 1993.
3. Indo-Italian Workshop on Biomass and other Renewables for power generation, IIT Delhi, India 20-22 March 1997.
3. International conference on 'Current Developments in Atomic, Molecular and Chemical Physics with application' (CDAMCP), University of Delhi, Delhi-110007, India, March 20-22, 2002.
  - (i) Simultaneous proton-photon excitation of Rydberg atoms : K.Batra, V.Prasad and M.Mohan P21
  - (ii) Collisional He Atoms excitation in the presence of laser field: A comparative study: V>Prasad P40
5. International Conference on Stereodynamics, at The University of Osaka, Japan, Nov.28, 2004 – Dec.3, 2004.

- (i) Ionization of hydrogen atom in intense chirped pulses : V.Prasad, K. Batra and K.Yamashita.
- 6.. Symposium on Molecular Structures, at the University of Hiroshima, Japan, Sept.23,2004-Sept.26,2004.
- (i) Rydberg atoms in ultrashort chirped pulses: V.Prasad, K.Batra and V.Prasad
7. 2nd International Conference on Atomic, Molecular and optical Physics, University of Delhi, Delhi 110 007, India, March 21-23, 2006.
8. International symposium on Molecular Beam , University of Heidelberg, Germany, May27,2007-June3,2007.
9. 3rd International Conference on Current Development in Atomic, Molecular, Optical and Nano Physics with Application (CDAMOP) (14-16, Dec 2011) Delhi University  
Non-adiabatic rotational excitation in presence of delayed zero area phase modulated pulse in International Conference CDAMOP, November 2011, New Delhi
10. International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials (ICWNCN) **March 13-16, 2012 at University of Delhi**
- Magnetic field modified excitation and photodissociation of a DQW system:  
U. Arya, S. Lumb and V.Prasad  
Effect of impurity in the transition probabilities of CQD in presence of electric field.  
B.Dahiya, S.Lumb and V.Prasad
11. ICQAMPP 2012 : International Conference on Quantum, Atomic, Molecular and Plasma Physics. held at Madrid Spain, March 28-March30, 2012.

**INTERNATIONAL CONFERENCE ON NANOSCIENCE AND NANOTECHNOLOGY (ICNN-2013) DURING 16-18, DECEMBER 2013, Lucknow**

12. "Engineering optical properties of double quantum well systems" P.Silotia, AKS Jha and V.prasad
13. Dynamics of single electron quantum ring in delayed half cycle pulses: K.Btra, H.Joshi and V.prasad
14. Delta doped artificial in presence of intense laser field and electric field. B.Dahiya, A. Tyagi and V.Prasad

**4th International Conference on Current Development in Atomic, Molecular, Optical and Nano Physics with Application (CDAMOP) (March 11-14 2015) Delhi University**

15. Photoexcitation and ionization of weakly confined atoms in magnetic fields: Kriti batra, A. Tyagi, B. Vidhani and V. Prasad P.N-18.

16. Orienting adsorbed molecules in static fields: A. Tyagi, B. Vidhani, R. Girir and V. Prasad [P-57].

17. Photoexcitation and ionization of exponential coulomb screened Coulomb potential (ECSCP). S. Lumb, D. Munjal and V. Prasad [P-219]

18. Optical properties of coupled delta doped nano-rods in magnetic fields. Ashish Tyagi, Rajesh Giri, Bhavan Vidhani and Vinod Prasad (P-104)

19. Static polarizability of an atom confined in Gaussian potential Sonia Lumb, Poonam Silotia and Vinod Prasad (P-256)

20. Effect of orienting pulse on alignment of molecule due to pulse train Urvashi Arya, Ashish Tyagi, Vinod Prasad (P-378)

**Contribution in National Conferences:**

**National symposium on nano materials: Dept. of Physics, Jamia Milia Islamia, New Delhi, April 28-29, 2014**

Intersubband and interband transitions in multiple quantum well systems in magnetic field. H. Joshi, R.K. Meena and V. Prasad [A176] P.410

Absorption spectra of two electron quantum ring: P. Silotia, R.K. Meena and V. Prasad [A115]

**National conference on atomic and molecular Physics, MMH College Ghaziabad U.P.**

Dynamics of H-atom in ultrashort chirped laser pulses, U.P.

Rotational dynamics of Polar diatomic molecules in presence of delayed zero area phase modulated pulses

**2 Topical Conference on Atomic & Molecular Physics**

January 3-4-5, 2008, Department of Physics, Sardar Patel University, Vallabh Vidyanagar

3. National Wo. XII National Conference on Atomic and Molecular Physics, Department of Physics, M.L.S. University, Udaipur, India, Dec 29, 1998 – Jan 2, 1999.

4. National Laser Symposium at CAT, INDORE, India, 20th-24th Jan 1996.

5. National symposium on optics and optoelectronics, IRDE, Dehradun, India, March 14-16, 1996.
6. XI National conference on Atomic and Molecular Physics, IIT Chennai, India, Dec. 17-20, 1996.
7. National Conference on Recent Trends in Atomic and Molecular Physics, BARC, Mumbai, India, Dec. 21-24, 1993.
8. IX National Conference on Atomic and Molecular Physics BARC, Mumbai, India, Dec., 1992.
9. VIII workshop on Atomic and Molecular Physics, Hyderabad, India, Dec., 1991.



## LIST OF PUBLICATION:

1. Laser induced vibration-rotation excitation of hydroxyl ions  $\text{OH}^+$  : B. Sharma, V. Prasad and M. Mohan, **J. Chem. Phys.** **89**, 1322 (1988). ISSN: 0021-9606 E-ISSN: 1089-7690 .I.F.-3.12
2. Vibrational energy transfer in a collinear HF-HF collisions involving low-lying states in the presence of an infrared laser beam : B. Sharma, V. Prasad and M. Mohan, **Pramana:J. of Phys.** **32**, 241 (1989). ISSN: 0304-4289 (print version) ISSN: 0973-7111 (electronic version). I.F. 0.720
3. Interaction of strong laser beam with He-atom using non-perturbative Floquet method: M. Mohan, V. Prasad and B. Sharma, **Pramana: J. of Phys.** **34**, 117 (1990).ISSN: 0304-4289 (printversion) ISSN: 0973-7111 (electronic version). I.F.0.720
- 4.
5. Collisional energy transfer between atoms in the presence of laser field: M.Mohan and V. Prasad **Phys. Lett. A** **148**, 327 (1990). ISSN: 0375-9601. I.F. 1.706
6. Laser assisted vibrational excitation during ion-molecule collisions: V. Prasad and M. Mohan **J. Phys.** **B24**, L81 (1991). Print ISSN: 0022-3700 I.F. 1.916
7. Vibrational excitation of SH radical due to proton impact impact in the presence of laser field: V. Prasad and M. Mohan **Chem. Phys. Lett.** **187**, 161 (1991). ISSN: 0009-2614. I.F. 2.088
8. Electron impact excitation of CI XI from its ground state: M. Mohan, K.L. Baluia, V. Prasad and A. Hibbert **J. Phys. B** **24**, 3881 (1991). Print ISSN: 0022-3700 I.F. 1.916
9. Multi photon vibration-rotation excitation of SH,  $\text{SH}^-$  and  $\text{SH}^+$  ions: V. Prasad, B. Sharma and M. Mohan **Physica Scripta** **45**, 52 (1992). Online ISSN: 1402-4896 Print ISSN: 0031-8949, I.F. 1.296
10. Vibrational excitation of CO molecule in collision with He-atom in the presence of an IR laser beam. B. Sharma, V. Prasad and M. Mohan, **Physica Scripta** **45**, 340(1992).OnlineISSN:1402-4896Print ISSN: 0031-8949, I.F. 1.296
11. Photoionization of the ground IS and twenty lowest excited states of Ne like Fe : M. Mohan, M.le Douneuf and V. Prasad **Pramana : J. of Physics** **39**, 305 (1993). ISSN: 0304-4289 (printversion) ISSN: 0973-7111 (electronic version). I.F.0.720

12. Laser assisted electron impact rovibrational excitation in HF: B. Sharma, V. Prasad, K.L. Baluja and M. Mohan **Zeit. Fur Physik D27**, 65 (1994).\_ ISSN: 0178-7683 (Print) 1431-5866 (Online).I.F. 1.398
13. Excitation of Atomic hydrogen due to proton impact in the presence of resonant laser field: V. Prasad, B. Sharma and M. Mohan **Physica Scripta 52**, 372 (1995). OnlineISSN:1402-4896Print ISSN: 0031-8949, I.F. 1.296
  
14. Laser assisted electron-alkali atom collisions: V. Prasad, R. Sharma and M. Mohan **Aus. J. Phys.** **49**, 1109 (1996). ISSN. 0004-9506. I.F. 0.52
15. Rovibrational excitation of diatomic molecule due to ion impact in the presence of an IR laser beam: V. Prasad, B. Sharma and M. Mohan **Zeit. Fur Physik D36**, 47(1996). ISSN: 0178-7683 (Print) 1431-5866 (Online). I.F. 1.398
  
16. Suppression of ionization due to intense laser pulse: M. Mohan, V. Prasad and R. Sharma **Phys. Rev. A54**, 2496 (1997).  
 ISSN1050-2947 (print) 1094-1622 (online) I.F. 3.04
  
17. Photoionization of ground and excited states of neon like KXx: M. Mohan, V. Prasad, M. Ie Dourneuf: **Physica Scripta 56**, 275 (1997). OnlineISSN:1402-4896Print ISSN: 0031-8949, I.F. 1.296
  
18. Rotational excitation of a heteronuclear diatomic molecule : V. Prasad, R. Sharma, P.C. Mathur and M. Mohan **Mol. Phys.** **95**, 689 (1998). ISSN 0026-8976 (Print), 1362-3028 (Online). I.F. 1.642
19. Excitation dynamics of an atom due to heavy ion impact in the laser field: V. Prasad, R. Sharma and M. Mohan **Aus. J. Phys.** **51**, 527 (1998). ISSN. 0004-9506. I.F.0.52
20. Ultrashort laser pulse suppression of dissociation in a molecule : M. Mohan and V. Prasad **Pramana: J. of Physics 53**, 863 (1999). ISSN: 0304-4289 (printversion) ISSN: 0973-7111 (electronic version). I.F.0.720
  
21. Two Photon process in an atom using pseudo state summation technique : R. Kundliya, V. Prasad and M. Mohan: **J. Phys. B 33**, 5263 (2000). Print ISSN: 0022-3700 I.F. 1.916
22. Collisional excitation of Rydberg atoms: K. Batra, V. Prasad and M. Mohan **European Physical Journal. D20**, 197 (2002). ISSN: 1434-6060 (print version) ISSN: 1434-6079 (electronic version) I.F. 1.420
23. Role of electric field ionization in rotational transitions, N. Singhal, V. Prasad and M. Mohan **European Physical Journal D21**, 391 (2003). ISSN: 1434-6060 (print version) ISSN: 1434-6079 (electronic version). I.F. 1.420

23. Selective excitation of vibrational modes of polyatomic molecule :  
Singhal N. Prasad V. Mohan M **Pramana : J.Phys.** **62**, 883 (2004 )  
ISSN: 0304- 4289 (printversion) ISSN: 0973-7111 (electronic version).  
I.F.0.720
24. Effect of laser field ellipticity on the rovibrational excitations of a diatomic molecule::V.Prasad and K.Yamashita **Chem.Phys. Lett** **426** , 8-12 (2006). ).  
ISSN: 0009- 2614. I.F. 2.088
- :
25. Photon Assisted intersubband transitions in a quantum wire: M.Gudwani.  
V.Prasad, P.K. Jha and M. Mohan , **Nano.1**, 213 (2006) . Print ISSN: 1793-2920.  
Online ISSN: 1793-7094. I.F. 1.20
26. Intersubband transitions in a finite quantum well: M. Gudwani, V.Prasad, P.K.Jha  
and M.Mohan, **International Journal of Nanoscience** **7**, 215 (2008).  
Print ISSN: 0219-581X Online ISSN: 1793-5350
- 27., Ionization of the H atom in ultra short chirped laser pulses V. Prasad, B.Dahiya  
and K.Yamashita, **Physica Scripta Phys. Scr.** **82**, 055302 (2010) OnlineISSN:1402-  
4896Print ISSN: 0031-8949, I.F. 1.296
28. Dynamics of a particle in a box in time varying potential due to chirped laser  
pulse: B. Dahiya and V.Prasad **Journal of Modern Physics**, **1**, 372-378(2010)  
**ISSN Print:** 2153-1196**ISSN Online:** 2153-120X I.F. 0.33
29. Modifications of laser field assisted intersubband transitions in a coupled  
quantum wells due to static electric field. V. Prasad and B.Dahiya **Phys. Stat.**  
**Solidi (b)** **248**, 1727 (2011). Online ISSN: 1521-3951I.F. 1.292
30. Effect of laser radiation on optical properties of disk shaped quantum dot  
in magnetic fields, Vinod Prasad, Poonam Silotia **Physics Letters A****375**, 3910  
(2011), ISSN: 0375-9601. I.F. 1.706
31. Ionization and population transfer in lithium Rydberg states with ultrashort  
chirped laser pulses. B.Dahiya, D.Munial and V.Prasad **Ind. J.Phys.**  
**85**.1721(2011). ISSN: 0973-1458 (print version)ISSN: 0974-9845 (electronic  
version)I.F.1.78
32. l-mixing collisions in presence of microwave fields. U Arya, B.Dahia and  
V. Prasad **J. Mod. Physics** **3**, 28(2012). **ISSN Print:** 2153-1196**ISSN**  
**Online:** 2153-120X. I.F. 0.33
33. Absorption Spectra of Artificial Atoms in Presence of THz Fields: B. Dahiya,  
K.Batra, V.Prasad **World Academy of Science, Engineering**  
**and Technolog** **6** 547 (2012 **ISSN:** 20103778, 2010376X I.F. -
34. Pulse shape effect of delayed pulse on Non-adiabatic rotational excitation : U.  
Arya, B.Dahiya and V.Prasad **Spectrochimica acta A** **95**,491(2012) ISSN: 1386-

1425. I.F.2.00

35. Population transfer in disk shaped quantum dot in delayed half cycle pulses and magnetic field: V.Prasad and P. Silotia *Journal of Computational and Theoretical Nanoscience* **10**, No.6, 1 (2013) ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online) I.F. 0.912
36. Controlling rotational dynamics and alignment of molecule by infrared laser pulse: U. Arya, A.Tyagi and V.Prasad *Spectrochimica acta A* **102**,120(2013) ISSN: 1386-1425. I.F. 2.00
37. Dynamics of intersubband transitions in triangular quantum wells due to static magnetic and laser fields: Brijender Dahiya, Vinod Prasad, Koichi Yamashita *J. Luminescence* **136**, 240 (2013). ISSN: 0022-2313. I.F. 2.12
38. Non-adiabatic rotational studies of a polar molecules in delayed pulses: U.Arva and V.Prasad: *J.Chemical Science* **125**, 1213 (2013). SSN: 0974-3626 (print version) ISSN: 0973-7103 (electronic version). I.F. 1.282
39. Dynamics of particle in harmonic potential in external static electric field and strong laser field. Shalini Lumb, Sonia Lumb and Vinod Prasad. *Journal of Modern Physics*, **4**, 1139(2013). ISSN Print: 2153-1196 ISSN Online: 2153-120X. I.F. 0.33
40. Response of a Harmonically Confined System to Short Laser Pulses: Sonia Lumb, Shalini Lumb and Vinod Prasad *Optical Matter* **2** 314 (2013). ISSN 2164-7615 (print); EISSN: 2164-7623 .I.F.-
41. Field-free molecular orientation control due to ramped pulses: U.Arya and V.Prasad *Phys. Rev. A* **87**, 035402 (2013) ISSN1050-2947 (print) 1094-1622 (online). I.F. 3.04
42. Asymmetric effects on the optical properties of double-quantum well Systems: P.Silotia, K.Batra and V.Prasad *Optical Engineering* **53**(2), 027105 (2014) ISSN: 0091-3286 E-ISSN:1560-2303 Publisher: SPIE. I.F. 0.98
43. Control of intersubband transitions in multiple quantum well systems: Kriti Batra and Vinod Prasad *Physica E* **61**(2014)171–179 ISSN: 1386-9477. I.F. 1.86
44. Pulse train induced rotational excitation and orientation of a polar Molecule. Ashish Tyagi, Urvashi Arya, Bhavna Vidhani and Vinod Prasad *Spectrochimica Acta Part A* **129** (2014) 193–200 ISSN: 1386-1425. I.F. 2.00
45. Dynamics of orientation of adsorbed polar molecules in static electric and laser field: B Dahiya, A Tyagi, V Prasad - *Molecular Physics*, **2014** - Vol. 112, 1651–1658, ISSN 0026-8976 (Print), 1362-3028 (Online). I.F. 1.642

46. Laser-induced excitation and ionization of confined hydrogen atom in exponential-cosine- screened Coulomb potential. Shalini Lumb, Sonia Lumb and Vinod Prasad **Phys. Rev. A** **90**, 032505 (2014) ISSN1050-2947 (print) 1094-1622 (online)
47. Multiple Quantum Well in static magnetic field and intense laser pulses: P.Silotia Hira Joshi and V.Prasad **Physics LettersA** **378**, 3561 (2014) ISSN: 0375-9601
48. Photoionization of confined hydrogen atom by short laser pulses S Lumb, S Lumb and V Prasad **Indian J Phys (January 2015)** 89(1):13–21 – ISSN: 0973-1458 (print version)ISSN: 0974-9845 (electronic version).I.F. 1.78
- 49.. Two electron quantum ring in short pulses: Poonam Silotia, Rakesh Kumar Meena and Vinod Prasad, **Chinese Physics B Vol. 24, No. 2 (2015) 020303 I.F. 1.228**
50. Photoexcitation and ionization of a hydrogen atom confined by a combined effect of a spherical box and Debye plasma: S.Lumb,S.Lumb and V.Prasad **Physics Letters A** **379** 1263 (2015) ISSN: 0375-9601
51. Intense field induced excitation and ionization of an atom confined in Exponential Cosine Screened Coulomb Potential (ECSCP)" Lumb, Shalini; Lumb, Sonia; Munial, Dipti; Prasad, Vinod **Physica Scripta** **90**, 095603 (2015) OnlineISSN:1402- 4896Print ISSN: 0031-8949, I.F. 1.296
52. Photoexcitation and ionization of hydrogen atom confined in Debye environment S.Lumb. S.Lumb and V.Nautival **European Journal of Physics D** **69(7)** 176 (2015) ISSN: 1434-6060 (printversion)ISSN: 1434-6079 (electronic version). I.F. 1.420
53. Static polarizability of an atom confined in Gaussian potential S.Lumb,S.Lumb and V.Prasad **The European Physical Journal – Plus** **130**, 149 (2015) ISSN: 2190-5444 (Online) I.F. 1.377

Book Chapter:

Quantum dynamics of polyatomic molecules: V. Prasad and N. Singhal in ‘**Current Development in Atomic Molecular and Chemical Physics**’ (ed. M. Mohan) Kluwer/Plenum (2002). ISBN-13: 978-0306474194 ISBN-10: 0306474190 **Publisher:** Springer; 2003

**Books Published:**

Mathematical Physics Co-Author: R.Giri (R. Chand & Co. New Delhi 2007)

**Journal Proceeding Edited:**

Guest editor in Nuclear Physics (Proceedings and Supplement) Vol  
251-252 (2014) ISSN: 0920-5632

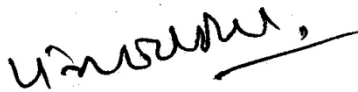
*Nuclear Physics B - Proceedings Supplements*

*Volumes 251–252, Pages 1-174 (June–July 2014)*

*International Conference on Light-Cone Physics: Hadronic and Particle Physics, International  
Conference on Light-Cone Physics: Hadronic and Particle Physics*

**Delhi, India 10–15 December 2012**

Edited by Daya Shankar Kulshreshtha, Supriya K. Kar, Vinod Nautiyal, Usha Kulshreshtha and  
Swarnendu Sarkar



(Vinod Prasad)