Amit Kumar

Designation : Assistant Professor
Subject : Physics
Area of Specialization : Nuclear Theoretical Physics
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Summary

My area of research is Nuclear Theoretical Physics. I have joined research in this field as M.Phil scholar in the year 2011 and now, I am Pursuing my Ph.D in the same field from University of Jammu. I have published seven research paper so far, six in international journal and one in national journal. I have also presented fourteen research papers in various international and national conferences. I have also performed research as Junior Research Fellow and Senior Research fellow. I have research experience of six years.

Awards and Achievements

- Junior Research Fellow (JRF) and Senior Research Fellow (SRF)

Workshops, Seminars, Symposia and Conferences attended

- **Presented a research paper** entitled "**Study of Nuclear Structure Properties of Some N=80 Isotones"** Amit Kumar, Arun Sharma and Arun Bharti, **in International DAE Symposium on Nuclear Physics-2012, held at Delhi University, Delhi.**
- **Presented a research paper** entitled "**Study of High Spin States of Odd Mass $^{103\text{-}107}$Rh Isotopes"** Amit Kumar, Suram Singh, Chetan Sharma, and Arun Bharti **in International DAE Symposium on Nuclear Physics-2013, held at BARC, Mumbai.**
- **Presented a research paper** entitled *"***Projected Shell Model Study of ^{129}Ba**" Suram Singh, Dhanvir Singh, Chetan Sharma, Amit Kumar, Deepti Sharma, Anuradha Gupta, Preeti Verma and Arun Bharti, **in 101st Indian Science Congress-2014, held at University of Jammu, Jammu.**
- **Presented a research paper** entitled *"***High Spin Study of Some odd Mass Tc Isotopes"** Amit Kumar, Aman Priya and Arun Bharti, **in the National Conference ECNMP-2014 held at University of Jammu, Jammu.**
- **Presented a research paper** entitled "**Structural Analysis of $^{57,\ 59}$Co"** Anu Radha Gupta, Preeti Verma, and Arun Bharti, **in International DAE Symposium on Nuclear Physics-2014, held at BHU, Varanasi.**
- **Presented a research paper** entitled "**Investigation of band structure of ^{103,105}Rh using microscopic computational technique.**" Amit Kumar, Suram Singh and Arun Bharti, **in AMRP-2015, held at Department of Physics, SLIET, Longowal, Punjab.**

- **Presented a research paper** entitled "**Nuclear structure study of ^{59}Cu**" Anuradha Gupta, Amit Kumar, Preeti Verma, Aman Priya, Suram Singh and Arun Bharti, **in 10th JK Science Congress-2015, held at University of Jammu, Jammu.**
- **Presented a research paper** entitled "**Projected Shell Model Study of Band Structure of ^{90}Nb"** Amit Kumar, Anuradha Gupta, Dhanvir Singh, Suram Singh and Arun Bharti, **in ICC-2015, held at Govt. Engineering College Bikaner.**
- **Presented a research paper** entitled "**Yrast Structures in the ^{55,57}Cr**" Änuradha Gupta, Amit Kumar, Suram Singh and Arun Bharti, **in ICC-2015, held at Govt. Engineering College Bikaner.**
- **Presented a research paper** entitled "**Theoretical study of band structure of odd-mass ^{117,119}I isotopes.**" Dhanvir Singh, Amit Kumar, Suram Singh and Arun Bharti, **in ICC-2015, held at Govt. Engineering College Bikaner.**
- **Presented a research paper** entitled "**Quasi-particle Structure of doubly-odd ^{92,94}Nb.**" Amit Kumar in National conference RMCSAP held at GDC Kathua.
- **Presented a research paper** entitled " **Band Structure of ^{109,111}Tc isotopes**" Amit Kumar, Dhanvir Singh, Suram Singh and Arun Bharti in 61st **International DAE Symposium on Nuclear Physics-2016, held at Saha Institute of Nuclear Physics, Kolkata.**
- **Presented a research paper** entitled "**Microscopic Study of ^{115,117}Sb in the Projected Shell Model**" Dhanvir Singh, Amit Kumar, Aman Priya, Chetan Sharma, Suram Singh and Arun Bharti in 61st **International DAE Symposium on Nuclear Physics-2016, held at Saha Institute of Nuclear Physics, Kolkata.**
- **Presented a research paper** entitled "**Band structure of proton-hole ^{111,113}In nuclei**" Suram Singh, Amit Kumar and Arun Bharti in 61st **DAE Symposium on Nuclear Physics-2016, held at Saha Institute of Nuclear Physics, Kolkata.**

Orientation/Refresher Courses Attended

- Attended the **First General Four Weak Orientation Course for Newly Appointed College Teachers** organised by the department of higher Education, Govt. of Jammu and Kashmir held at Govt. College of Education, from 31st Oct. to 28 Nov., 2016.

Research Publications

- Theoretical study of neutron-rich ^{107,109,111,113}Rh isotopes. *International Journal of Modern Physics E,Vol. 24, No. 10 (2015) 1550076. ISSN: 1793-6608*
- Study of nuclear structure of odd mass $^{119-127}$I nuclei in a phenomenological approach.*Nuclear Physics A 952 (2016) 41–6. ISSN: 0375-9474*

- Investigation of Band Structure of ^{103,105}Rh Using Microscopic Computational Technique. *AIP Conference Proceedings 1675, 030100 (2015) ISSN:0094-243X*
- Projected Shell Model Study of Band Structure of ^{90}Nb. *AIP Conference Proceedings 1728, 020337 (2016). ISSN:0094-243X.*
- Yrast Structures in the ^{55,57}Cr. *AIP Conference Proceedings 1728, 020331 (2016). ISSN:0094-243X.*
- Theoretical study of band structure of odd-mass ^{115,117}I isotopes. *AIP Conference Proceedings 1728, 020303 (2016). ISSN:0094-243X*
- Radioactive Waste Management. *SHRINKHALA : VOL-II * ISSUE-II*October-2014. ISSN: 2321-290X*

Academic Qualifications

Examination Passed	Board/ University	Subjects	Year	Division / Grade / Merit
SSC	JKBOSE	English, Hindi, Mathematics, Science, Social Studies	2003	Distinction
Higher Secondary	JKBOSE	English, Physics, Chemistry, Mathematics	2005	1st Division
Bachelor's Degree(s)	University of Jammu	English, Mathematics, Physics, Electronics	2008	Distinction
Master's Degree(s) (M.A/M.Sc.)	University of Jammu	Physics	2010	1st Division
NET	CSIR	Physics	2013	Rank-186, JRF
Other Diploma / Certificates etc.				

Research Experience

Research Stage	Title of Work /Thesis	University where the work was carried out	Year
M. Phil or equivalent	Study of Nuclear Structure Properties of Some N=80 Isotones	University of Jammu	2012
Ph.D.	Pursuing		