Curriculum Vitae

Name :	Ajay Kumar Singh
Present Position	Associate Professor Department of Physics Indian Institute of Technology Kharagpur
Communicating : address	Department of Physics India Institute of Technology, Kharagpur Kharagpur 721302, India
Education	Ph.D. from University of Calcutta in 1999.
Fellowship:	Alexander von Humboldt Fellowship, Germany (May, 2000 - A Research associateship from DFG Germany (2002-2004)
Teaching and Research experiences:	Associate Prof. at Dept. of Physics, IIT Kharagpur, since 2013 Assistant Prof. at Dept. of Physics, IIT Kharagpur, (2005-201 Visiting Faculty at Dept. of Physics, 2004-2005 Research associate (DFG, Germany) at HISKP, Uni. Bonn from (Sept. 2002 - June 2004) Post doctoral fellow (Alexander von Humboldt fellow, German HISKP, Uni. Bonn from May, 2000 - Aug. 2002.
Working experiences:	Knowledge of different type of detectors used in nuclear spectroscopy, Detector arrays, Nuclear electronics, Accelerator based research work, Data analysis, Detector simulation, Nuclear model calculations

Supervisions & Guidance

Ph.D Thesis

1. Ms. Purnima Singh
Ph.D. Awarded : Sept. 2012
Structural Evolution In ^{125}I, ^{123}I *and* ^{122}I *With Increasing Angular Momentum*
Supervisor : A.K. Singh

2. Mr. Surja Kiran Ghorui

Ph.D Awarded : August 2012
Double Beta Decay Study of Some Nuclei In The Mass Range A=76 to 150 Within The Deformed Hatree-Fock Model
Supervisor(s) : (i) Prof. P.K. Raina, (ii) Dr. A.K. Singh

3. Mr. Somnath Nag
Ph.D. Awarded : July, 2014
Title : Evolution of shapes through collective and non-collective excitations in ^{120}Te, ^{122}Te *and* ^{124}Xe
Supervisor : A.K. Singh

4. Mr. Soumik Das
Ph.D. Awarded : Sept, 2016
Title : Measurement and simulation studies for some double beta decay transitions of Tin nuclei Supervisor(s) : A.K. Singh and P. K. Raina

5. Mr. K. Selvakumar
Status : Thesis submitted (July 2016)
Title : Investigation of Nuclear Shapes and its Evolution in the A∼125 region through Lifetime Measurements Supervisor : A.K. Singh

6. Ms. Anwesha Basu
Status : continuing
Supervisor : A.K. Singh

Research Activity

AREA OF CURRENT INTEREST

1. High-spin Gamma ray spectroscopy of nuclei close to β-stability line
2. Double Beta Decay studies
3. Compressed Baryonic Matter

RESEARCH COLLABORATIONS

1. Helmholtz-Institüt für Strahlen-und Kernphysik, Univ. of Bonn, Germany
2. Lund University, Sweden
3. Argonne National Laboratory, USA
4. Lawrence BerkeleyNational Laboratory, USA

5. Compressed Baryonic Matter (CBM) collaboration, GSI, Germany
6. Saha Institute of Nuclear Physics, Kolkata
7. Variable energy Cyclotron Centre, Kolkata
8. Inter university accelerator centre, New Delhi
9. Tata Institute for Fundamental Research Mumbai

SPONSORED PROJECTS :

1. *Pre-operative programme for Indian participation in the FAIR project at GSI, Darmstadt, Germany- Accelerator and detector-related R&D and prototyping*; Dept. of Science and Technology, Govt. of India
2. *Study of single particle and collective degrees of freedom in nuclei at high spin through heavy-ion fusion evaporation reaction mechanism* , ISIRD, SRIC, IIT Kharagpur
3. *Spectroscopy of nuclei close to beta-stability line by using complete- and incomplete-fusion and deep-inelastic reactions*; Dept. of Science and Technology, Govt. of India
4. *Feasibility Study of Neutrinoless Double Beta Decay in 124Sn*; Dept. of Science and Technology, Govt. of India,

List of Publications in Refereed Journals (International)

Papers Published in International Journals

1. Shears mechanism and development of collectivity in ^{141}Sm

   S. Rajbanshi, Sajad Ali, Abhijit Bisoi, Somnath Nag, S. Saha, J. Sethi, T. Bhattacharjee, S. Bhattacharyya, S. Chattopadhyay, G. Gangopadhyay, G. Mukherjee, R. Palit, R. Raut, M. Saha Sarkar, **A.K. Singh**, T. Trivedi, and A. Goswami
   Phys. Rev. C, 94, 044318 (2016)

2. Observation of high-spin bands with large moments of inertia in ^{124}Xe

   Somnath Nag, A. K. Singh, G. B. Hagemann, G. Sletten, B. Herskind, T. Døssing, I. Ragnarsson, H. Hübel, A. Bürger, S. Chmel, A. N. Wilson, J. Rogers, M. P. Carpenter, R. V. F. Janssens, T. L. Khoo, F. G. Kondev, T. Lauritsen, S. Zhu, A. Korichi, E. A. Stefanova, P. Fallon, B. M. Nyakó, J. Timár, and K. Juhász
   Phys. Rev. C, 94, 034307 (2016)

3. Evidence for octupole correlations and chiral symmetry breaking in ^{124}Cs

   K. Selvakumar, **A.K. Singh**, Chandan Ghosh, Purnima Singh, A. Goswami, R. Raut, A. Mukherjee, U. Datta, P. Datta, S. Roy, G. Gangopadhyay, S. Bhowal, S. Muralithar, Rakesh Kumar, R. P. Singh and M. Kumar Raju
   Phys. Rev. C, 92, 064307 (2015)

4. Antimagnetic rotation and sudden change of electric quadrupole transition strength in ^{143}Eu

   S. Rajbanshi, S. Roy, Somnath Nag, Abhijt Bisoi, S. Saha, J. Sethi, T. Trivedi, T. Bhattacharjee, S. Bhattacharyya, S. Chattopadhyay, G. Gangopadhyay, G. Mukherjee, R. Palit, R. Raut, M. Saha Sarkar, **A.K. Singh** and A. Goswami
   Phys. Lett. B, 748, 387 (2015)

5. Preliminary study of feasibility of an experiment looking for excited state double beta transitions in tin

   Soumik Das, S. K. Ghorui, , P. K. Raina, **A.K. Singh**, P. K. Rath, F. Cappella, R. Cerulli, M. Laubenstein, P. Belli, and R. Bernabei
   Nuclear Instruments and Methods in Physics Research A 797 , 130-137 (2015)

6. Shape evolution and magnetic rotation in ^{141}Nd

   T. Zerrouki, C.M. Petrache, R. Leguillon, K. Hauschild, A. Korichi, A. Lopez-Martens, S. Frauendorf, I. Ragnarsson, H. Hübel, A. Neußer-Neffgen, A. Al-Khatib, P. Bringel, A. Bürger, N. Nenoff, G. Schönwaßer, **A.K. Singh**, D. Curien, G.B. Hagemann, B. Herskind, G. Sletten, P. Fallon, A. Görgen and P. Bednarczyk
   Eur. Phys. J A 51, 50 (21 pages) (2015)

7. Revised level structure of ^{120}Te

   Somnath Nag, Purnima Singh, **A.K. Singh**, A. Bürger, M. P. Carpenter, S. Chmel, P. Fallon, G.B. Hagemann, B. Herskind, H. Hübel, R. V. F. Janssens, K. Juhász, T. L. Khoo, G. Kondev, A. Korichi, T. Lauritsen, B. M. Nyakó , I. Ragnarsson, J. Rogers, G. Sletten, J. Timár, A.N. Wilson and S. Zhu
   Phys. Rev. C 90, 037302 (pages 5) (2014)

8. Multiple magnetic rotational bands based on proton alignment in ^{143}Eu

   S. Rajbanshi, Abhijt Bisoi, Somnath Nag, S. Saha, J. Sethi, T. Trivedi, T. Bhattacharjee, S. Bhattacharyya, S. Chattopadhyay, G. Gangopadhyay, G. Mukherjee, R. Palit, R. Raut, M. Saha Sarkar, **A.K. Singh** and A. Goswami
   Phys. Rev. C 90, 024318 (pages 7) (2014)

9. Shape coexistence in the near-spherical ^{142}Sm nucleus

   S. Rajbanshi, Abhijit Bisoi, Somnath Nag, S. Saha, J. Sethi, T. Trivedi, T. Bhattacharjee, S. Bhattacharyya, S. Chattopadhyay, G. Gangopadhyay, G. Mukherjee, R. Palit, R. Raut, M. Saha Sarkar, **A.K. Singh**, and A. Goswami
   Phys. Rev. C 89, 014315 (19 pages) (2014)

10. Collective and noncollective excitations in ^{122}Te

    Somnath Nag, **A.K. Singh**, I. Ragnarsson, H. Hübel, A. Al-Khatib, P. Bringel, C. Engelhardt, A. Neußer-Neffgen, G.B. Hagemann, B. Herskind, G. Sletten, M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, T. Lauritsen, R.M. Clark, P. Fallon, G. Benzoni, A. Bracco, F. Camera, P. Chowdhury
    Phys. Rev. C 88, 044335 (13 pages) (2013)

11. Non-collective states in ^{122}Te

    Somnath Nag, Purnima Singh, K. Selvakumar, **A.K. Singh**, Abhijit Bisoi, A. Goswami, S. Bhattacharya, Surender Kumar, Kuljeet Singh, J. Sethi, Sudipta Saha, T. Trivedi, S. V. Jadhav, R. Donthi , B. S. Naidu, and R. Palit,
    Eur. Phys. J A 49, 145 (7 pages) (2013)

12. High-spin spectroscopy of ^{140}Nd

    R. Leguillon, C. M. Petrache, T. Zerrouki, T. Konstantinopoulos, K. Hauschild, A. Korichi, and A. Lopez-Martens, S. Frauendorf, I. Ragnarsson, P. T. Greenlees, U. Jakobsson, P. Jones, R. Julin, S. Juutinen, S. Ketelhut, M. Leino, P. Nieminen, M. Nyman, P. Peura, P. Rahkila, P. Ruotsalainen, M. Sandzelius, J. Saren, C. Scholey, J. Sorri, J. Uusitalo H. Hübel, A. Neußer-Neffgen, A. Al-Khatib, A. Bürger, N. Nenoff, **A.K. Singh**, D. Curien, G. B. Hagemann, B. Herskind, G. Sletten, P. Fallon, A. Görgen, P. Bednarczyk and D. M. Cullen
    Phys. Rev. C 88, 014323 (20 pages) (2013)

13. Shape evolution in ^{123}Cs and ^{124}Ba nuclei

    K. Selvakumar, **A.K. Singh**, Subhashri Das, Purnima Singh, A. Goswami, R. Raut, A. Mukherjee, U. Datta Pramanik, P. Dutta, S. Roy, G. Gangopadhyay, S. Bhowal,

S. Muralithar, Rakesh Kumar, R. P. Singh, M. Kumar Raju, Thomas Reddy
Phys. Rev. C 88, 024313 (6 pages) (2013)

14. High-spin rotational bands in ^{123}I

    Purnima Singh, **A.K. Singh**, A. N. Wilson, I. Ragnarsson, H. Hübel, A. Bürger, M. P. Carpenter, S. Chmel, P. Fallon, G. B. Hagemann, B. Herskind, Hoa Ha, R. V. F. Janssens, K. Juhász, A. Kardan, T. L. Khoo, G. Kondev, A. Korichi, T. Lauritsen, B. M. Nyakó, J. Rogers, G. Sletten, J. Timár, and S. Zhu
    Phys. Rev. C 86, 067305 (2012)

15. Experimental investigation of shell model excitations of ^{89}Zr up to high spin

    S. Saha, R. Palit, J. Sethi, T. Trivedi, P.C. Srivastava, S. Kumar, B.S. Naidu, R. Donthi, S. Jadhav, D.C. Biswas, U. Garg, A. Goswami, H.C. Jain, P.K. Joshi, G. Mukherjee, Z. Naik, S. Nag, V. Nanal, R.G. Pillay, S. Saha, and **A.K. Singh**
    Phys. Rev. C 86 034315 (2012)

16. Rotational Bands and Electromagnetic Transitions of some even-even Neodymium Nuclei in Projected Hartree-Fock Model

    S. K. Ghorui, P.K. Raina, P.K. Rath, **A.K. Singh**, Z. Naik, S. K. Patra and C. R. Praharaj
    Int. J mod. Phys E 21, 1250070 (23 pages) (2012)

17. High spin spectroscopy of ^{122}I

    Purnima Singh, Somnath Nag, K. Selvakumar, **A.K. Singh**, I. Ragnarsson, Abhijit Bisoi, A. Goswami S. Bhattacharya, Surender Kumar, Kuljeet Singh, Jasmine Sethi, Sudipta Saha, T. Trivedi, S. V. Jadhav, R. Donthi, B. S. Naidu, and R. Palit
    Phys. Rev. C 85, 054311 (12 pages) (2012)

18. Core excitations beyond maximally aligned configurations in ^{123}I

    Purnima Singh, **A.K. Singh**, A.N. Wilson, J. Rogers, H. Hübel, A. Bürger, S. Chmel, I. Ragnarsson, G. Sletten, B. Herskind, B.M. Nyako', J Timar, A. Korichi, Hoa Ha, P. Fallon, A. Macchiavelli, T. Lauritsen, T.L. Khoo, M.P. Carpenter, F. Kondev, S. Zhu and K. Juha'sz
    Phys. Rev. C 85, 034319 (2012)

19. Small quadrupole deformation for the dipole bands in ^{112}In

    T. Trivedi, R. Palit, J. Sethi, S. Saha, S. Kumar, Z. Naik, V. V. Parkar, B. S. Naidu, A. Y. Deo, A. Raghav, P. K. Joshi, H. C. Jain, S. Sihotra, D. Mehta, A. K. Jain, D. Choudhury, D. Negi, S. Roy, S. Chattopadhyay, **A.K. Singh**, P. Singh, D. C. Biswas, R. K. Bhowmik, S. Muralithar, R. P. Singh, R. Kumar, and K. Rani
    Phys. Rev. C 85, 014327 (2012)

20. Collective and non-collective states in ^{120}Te

    Somnath Nag, **A.K. Singh**, A.N. Wilson, J. Rogers, H. Hübel, A. Bürger, S. Chmel, I. Ragnarsson, G. Sletten, B. Herskind, B.M. Nyako', J Timar, A. Korichi, Hoa Ha,

P. Fallon, A. Macchiavelli, T. Lauritsen, T.L. Khoo, M.P. Carpenter, F. Kondev, S. Zhu and K. Juha'sz
Phys. Rev. C 85, 014310 (2012)

21. Development of collective structures over non-collective excitations in ^{139}Nd

    S. Bhowal, G. Gangopadhyay, C. M. Petrache, I. Ragnarsson, **A.K. Singh**, S. Bhattacharya, H. Hübel, A. Neußer-Neffgen, A. Al-Khatib, P. Bringel, A. Bürger, N. Nenoff, G. Schönwaßer, G. B. Hagemann, B. Herskind, D. R. Jensen, G. Sletten, P. Fallon, A. Görgen, P. Bednarczyk, D. Curien, A. Korichi, A. Lopez-Martens, B. V. T. Rao, T. S. Reddy Nirmal Singh
    Phys. Rev. C 84, 024313 (2011)

22. Highly deformed high-spin band in ^{125}I

    Purnima Singh, Somnath Nag, **A.K. Singh**, H. Hübel, A. Al-Khatib, P. Bringel, C. Engelhardt, A. Neußer-Neffgen, I. Ragnarsson, M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, T. Lauritsen, G.B. Hagemann, C.R. Hansen, B. Herskind, G. Sletten, A. Bracco, F. Camera, G. Benzoni, P. Fallon, R.M. Clark, P. Chowdhury, H. Amro
    Phys. Rev. C 84, 024316 (2011)

23. Energy levels in ^{141}Nd from fusion evaporation study

    Samit Bhowal, Chirashree Lahiri, Rajarshi Raut, Purnima Singh, M Kumar Raju, A Goswami, **A.K. Singh**, S Bhattacharya, T Bhattacharjee, G Mukherjee, S Bhattacharyya, S Muralithar, R K Bhowmik, N Madhavan, R P Singh and G Gangopadhyay
    J. Phys. G: Nucl. Part. Phys. 38 035105 (2011)

24. High-spin spectroscopy in ^{125}Xe

    A. Al-Khatib, G. B. Hagemann, G. Sletten, **A.K. Singh**, H. Amro, G. Benzoni, A. Bracco, P. Bringel, F. Camera, M. P. Carpenter, P. Chowdhury, R. M. Clark, C. Engelhardt, P. Fallon, B. Herskind, H. Hübel, R. V. F. Janssens, T. L. Khoo, T. Lauritsen, A. Neußer-Neffgen, and C. Rønn Hansen
    Phys. Rev. C 83, 024306 (2011)

25. Noncollective aligned and antialigned states in ^{125}I

    Purnima Singh, Somnath Nag, **A.K. Singh**, H. Hübel, A. Al-Khatib, P. Bringel, C. Engelhardt, A. Neußer-Neffgen, I. Ragnarsson, M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, T. Lauritsen, G.B. Hagemann, C.R. Hansen, B. Herskind, G. Sletten, A. Bracco, F. Camera, G. Benzoni, P. Fallon, R.M. Clark, P. Chowdhury, H. Amro
    Phys. Rev. C 82, 034301 (2010)

26. Transition to non-collective states at high spin in ^{124}Xe

    A. Al-Khatib, H. Hübel, P. Bringel, C. Engelhardt, A. Neußer-Neffgen, G.B. Hagemann, C.R. Hansen, B. Herskind, G. Sletten, A. Bracco, F. Camera, G. Benzoni, P. Fallon, R.M. Clark, M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, T. Lauritsen, P. Chowdhury, H. Amro, **A.K. Singh**, and R. Bengtsson
    Euro. Phys. J. A 36,21-29 (2008)

27. Band Structures Extending to Very High Spin in ^{126}Xe

    C. Rønn Hansen, G. Sletten, G.B. Hagemann, B. Herskind, D.R. Jensen, P. Bringel, C. Engelhardt, H. Hübel, A. Neußr-Neffgen, **A.K. Singh**, M.P. Carpenter, R.V.F Janssens, T.L. Khoo, T. Lauritsen, P. Bednarczyk, T. Byrski, D.Curien, G. Benzoni, A. Bracco, F. Camera, S. Leoni, R.M. Clark P. Fallon, A. Korichi J. Roccaz, A. Maj, J.N. Wilson, J.C. Lisle, T. Steinhardt, O. Thelen, S.W. Ødegd̊
    Phys. Rev. C 76, 034311 (16 pages) (2007)

28. Light charged particles as gateway to hyperdeformation

    B Herskind, G B Hagemann, Th. Døssing, C Rønn Hansen, N Schunck, G Sletten, S Ødegd̊, H Hübel, P Bringel, A Bürger, A Neusser, **A.K. Singh**, A Al-Khatib, S B Patel, B M Nyako, A Algora, Z Dombradi, J Gal, G Kalinka, D Sohler, J Molnar, J Timar, L Zolnai, K Juhasz, A Bracco, S Leoni, F Camera, G Benzoni, P Mason, A Paleni, B Million, O Wieland, P Bednarczyk, F Azaiez, Th Byrski, D Curien, O Dakov, G Duchene, F Khalfallah, B Gall, L Piqeras, J Robin, J Dudek, N Rowley, N Redon, F Hannachi, J N Scheurer, J N Wilson, A Lopez-Martens, A Korichi, K Hauschild, J Roccaz, S Siem, P Fallon, I Y Lee, A Gö rgen, A Maj, M Kmiecik, M Brekiesz, J Styczen, K Zuber, J C Lisle, B Cederwall, K Lagergren, A O Evans, G Rainovski, G De Angelis, G La Rana, R Moro, R M Lieder, E O. Lieder, W. Gast, H Jä ger, A.A. Pasternak, C M Petrache and D Petrache
    Acta Physica Polonica B 38,1421-1430 (2007)

29. Competition between collective and noncollective excitation mode at high spin in ^{124}Ba

    A. Al-khatib, **A.K. Singh**, H. Hübel, P. Bringel, A. Bürger, A. Neußer, G. Schönwaßer, G.B. Hagemann, C.R. Hansen, B. Herskind, G. Sletten, A. Algora, Zs. Dombrádi, J. Gál, G. Kalinka, J. Molnár, B.M. Nyakó, D. Sohler, J. Timár, L. Zolnai, M. Kmiecik, A. Maj, J. Styczen, K. Zuber, K. Hauschild, A. Korichi, A. Lopez-Martens, J. Roccaz, S. Siem, F. Hannachi, J.N. Scheurer, P. Bednarczyk, Th. Byrski, D. Curien, O. Dorvaux, G. Duchène, B. Gall, F. Khalfallah, I. Piqueras, J. Robin, K. Juhász, S.B. Patel, A.O. Evans, G. Rainovski, A. Airoldi, G. Benzoni, A. Bracco, F. Camera, B. Million, E. Musso, A. Paleni, R. Sacchi, O. Wieland, C.M. Petrache, D. Petrache, G. La Rana, R. Moro, G. De Angelis, P. Fallon, I.-Y. Lee, J.C. Lisle, B. Cederwall, K. Lagergen, R.M. Lieder, E. Podsvirova, W. Gast, H. Jäger, N. Redon and A. Görgen
    Phys. Rev. C 74,014305 (18 pages) (2006)

30. Relativistic coulomb excitation of neutron-rich ^{54,56,58}Cr

    H. Hübel, A. Bürger, T. R. Saito, H. Grawe, P. Reiter, J. Gerl, M. Górska, H. J. Wollersheim, A. Al-Khatib, A. Banu, T. Beck, F. Becker, P. Bednarczyk, G. Benzoni, A. Bracco, S. Brambilla, P. Bringel, F. Camera, E. Clément, P. Doornenbal, H. Geissel, A. Görgen, J. Grbosz, G. Hammond, M. Hellström, M. Kavatsyuk, O. Kavatsyuk, M. Kmiecik, I. Kojouharov, W. Korten, N. Kurz, R. Lozeva, A. Maj, S. Mandal, B. Million, S. Muralithar, A. Neußer-Neffgen, Zs. Podolyák, N. Saito, A. K.

Singh, H. Weick, O. Wieland, M. Winkler, C. Wheldon **Acta Physica Hungrica A; Heavy ion Physics, 25, 197-202 (2006)**

31. Charged particle feeding of hyperdeformed nuclei in the A=118-126 region

    B Herskind, G B Hagemann, G Sletten, Th. Døssing, C Rønn Hansen, N Schunck, S Ødegård, H Hübel, P Bringel, A Bürger, A Neusser, **A.K. Singh**, A Al-Khatib, S B Patel, A Bracco, S Leoni, F Camera, G Benzoni, P Mason, A Paleni, B Million, O Wieland, P Bednarczyk, F Azaiez, Th Byrski, D Curien, O Dakov, G Duchene, F Khalfallah, B Gall, L Piqeras, J Robin, J Dudek, N Rowley, B M Nyako, A Algora, Z Dombradi, J Gal, G Kalinka, D Sohler, J Molnar, J Timar, L Zolnai, K Juhasz, N Redon, F Hannachi, J N Scheurer, J N Wilson, A Lopez-Martens, A Korichi, K Hauschild, J Roccaz, S Siem, P Fallon, I Y Lee, A Gö rgen, A Maj, M Kmiecik, M Brekiesz, J Styczen, K Zuber, J C Lisle, B Cederwall, K Lagergren, A O Evans, G Rainovski, G De Angelis, G La Rana, R Moro, W Gast, R M Lieder, E Podsvirova, H Jä ger, C M Petrache and D Petrache **Phys. Scripta T125, 108-114 (2006)**

32. Triaxiality at high spins in Nd nuclei

    C M Petrache, A Neuer-Neffgen, H Hü bel, A Al-Khatib, P Bringel, A Bü rger, N Nenoff, G Schö nwaßer, **A.K. Singh**, M Fantuzi, D Mengoni, G B Hagemann, B Herskind, D R Jensen, G Sletten, P Fallon, A Grgen, P Bednarczyk, D Curien, G Gangopadhyay, A Korichi, A Lopez-Martens, B V T Rao, T S Reddy, Nirmal Singh and I Ragnarsson
    Phys. Scripta T125, 212-213 (2006)

33. High-spin states in ^{161}Lu

    P. Bringel, H. Hübel, A. Al-khatib, A. Bürger, N. Nenoff, A. Neußer-Neffen, G. Schønwasser, **A.K. Singh**, G.B. Hagemann, B. Herskind, D.R. Jensen, G. Sletten, A. Bednarczyk, D. Curien, D. Joss, J. Simpson, G. Gangopadhyay, Th. Kröll, G. Lo Bianco, C.M. Petrache, S. Lunardi, W.C. Ma and N. Singh
    Phys. Rev. C 73, 054314 (12 pages) (2006)

34. Systematics of the shears mechanism in silver isotopes

    A.Y. Deo, S.B. Patel, S. Tandel,S. Muralithar, R. P. Singh, R. Kumar, R. K. Bhowmik, S. S. Ghugre, **A.K. Singh** V. Kumar and Amita
    Phys. Rev. C73, 034313 (9 pages) (2006)

35. Triaxial superdeformed and normal-deformed high-spin band structures in ^{170}Hf

    A. Neußer-Neffgen, H. Hübel, G.B. Hagemann, S. Bhattacharya, P. Bringel, D. Curien, O. Dorvaux, J. Domscheit, F. Hannachi, D.R. Jensen, A. Lopez-Martens, E. Mergel, N. Nenoff and **A.K. Singh**
    Phys. Rev. C 73, 034309 (6 pages) (2006)

36. Excitation energies of superdeformed states in ^{196}Pb: towards a systematic study of the second well in Pb isotopes

A.N. Wilson, **A.K. Singh**, H. Hübel, A. Korichi, P.M. Davidson, A. Görgen, D. Roßbach, A. Astier, F. Azaiez, D. Bazacco, C. Bourgeois,N. Buforn, P. Byrne, G.D. Dracoulis, F. Hannachi, K. Hauschild, W. Korten, Kröll, G.J. Lane, A. Lopez-Martens, N. Redon, P. Reiter, C. Rossi-Alvarez, G. Schönwaßer, O. Stezowski, and P.G. Thirolf.
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Table 1: **Summary of research publications published in International journals and conference proceedings**

Journals	No. of published papers	Journal imp factor(201
Physical Review Letter	2	7.728
Physics Letter B	3	6.019
Physicsl Review C	36	3.881
European Physical Journal A	12	2.736
Nuclear Physics A	4	2.499
Journal of Physics G	2	2.777
Nuclear Instruments and Methods for Phys. Res. A	1	1.216
Acta Physica Polonica B	4	0.998
Physica Scripta	2	1.126
Int. J. Mod. Phys. E	1	1.343
Acta Physica Hungarica	1	
No. of papers communicated	0	
No. of papers under preparation	0	
Total number of papers (Journals)	68 +0+0	
Papers published since 2004	50	
Papers published during Ph.D. work	8	
Papers published in conference proceedings	50	