List of Publications

A. Publications in International Journals:

1. Two-proton alignment and shape changes in ^{65}Zn
   B. Mukherjee, S. Muralithar, R. P. Singh, **R. Kumar**, K. Rani, R. K. Bhowmik and S. C. Pancholi
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2. γ-ray spectroscopy of odd-odd ^{62}Cu
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   Phys. Rev. C **63**, 057302 (2001).

3. Recoil distance lifetime measurements in ^{118}Xe
   I. M. Govil, A. Kumar, Hema Iyer, P. Joshi, S. K. Chamoli, **R. Kumar**, R. P. Singh, and U. Garg
   Phys. Rev. C **66**, 064318 (2002).

4. Search for entrance channel effects in heavy ion induced fusion reactions via neutron evaporation
   Ajay Kumar, A. Kumar, G. Singh, B. K. Yogi, **R. Kumar**, S. K. Datta, M. B. Chatterjee, and I. M. Govil
   Phys. Rev. C **68**, 034603 (2003).

5. Complete and incomplete fusion reactions in the ^{16}O+^{169}Tm system: Excitation functions and recoil range distributions
   Manoj Kumar Sharma, Unnati, B. K. Sharma, B. P. Singh, H. D. Bhardwaj, **R. Kumar**, K. S. Golda, and R. Prasad
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6. Anomalous behavior of the level density parameter in neutron and charged particle evaporation
   Ajay Kumar, A. Kumar, G. Singh, Hardev Singh, R. P. Singh, **R. Kumar**, K. S. Golda, S. K. Datta, and I. M. Govil
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7. Lifetime measurements in ^{112}Sb
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9. Systematics of the shears mechanism in silver isotopes
   A. Y. Deo, S. B. Patel, S. K. Tandel, S. Muralithar, R. P. Singh, **R. Kumar**, R. K. Bhowmik, S. S. Ghugre, A. K. Singh, V. Kumar and Amita
   Phys. Rev. C **73**, 034313 (2006).

10. Fission hindrance studies in ^{200}Pb: Evaporation residue cross section and spin distribution measurements
    P. D. Shidling, N. M. Badiger, S. Nath, **R. Kumar**, A. Jhingan, R. P. Singh, P. Sugathan, S. Muralithar, N. Madhavan, A. K. Sinha, Santanu Pal, S. Kailas, S. Verma, K. Kalita, S. Mandal, R. Singh, B. R. Behera, K. M. Varier, M. C. Radhakrishna
    Phys. Rev. C **74**, 064603 (2006).

11. Shape changes at high spin in ^{78}Kr
    A. Dhall, R. K. Sinhal, P. Agarwal, S. Kumar, Monika, B.B. Singh, R. Kumar, P. Bringel, A. Neusser, **R. Kumar**, K.S.Golda, R.P. Singh, S. Muralithar, N. Madhavan, J.J. Das, A.Shukla, P.K.Raina, K.S.Thind, A.K. Sinha, I.M. Govil, P.K. Joshi, R.K. Bhowmik, A.K. Jain, S.C. Pancholi, and L. Chaturvedi
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12. Rotational structures in the ^{125}Cs nucleus
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13. Loss of collectivity in ^{79}Rb
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14. Band structure in ^{83}Rb from lifetime measurements
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15. A study of the reactions occurring in ^{16}O + ^{159}Tb system: Measurement of excitation functions and recoil range distributions
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16. Observation of isomeric decays in the r-process waiting-point nucleus $^{130}Cd_{82}$
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17. Multiparticle M1 band in ^{134}La
Vinod Kumar,Pragya Das, R. P. Singh, **R. Kumar**, S. Muralithar, and R. K. Bhowmik
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18. Bandcrossing of magnetic rotation bands in ^{137}Pr
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19. Observation of complete- and incomplete-fusion components in ^{159}Tb, ^{169}Tm(^{16}O, x) reactions: Measurement and analysis of forward recoil ranges at E/A $\approx$ 5-6 MeV
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20. Influence of incomplete fusion on complete fusion: Observation of a large incomplete fusion fraction at E $\approx$ 5-7 MeV/nucleon
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21. Spin-distribution measurement: A sensitive probe for incomplete fusion dynamics
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22. Abrupt change of rotation axis in ^{109}Ag
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23. **Enhanced strength of the $2_1^+ \rightarrow 0_{g.s.}^+$ transition in ^{114}Sn studied via Coulomb excitation in inverse kinematics**
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Ajay Kumar, Hardev Singh, Rajesh Kumar, I.M.Govil, R.P. Singh, **R. Kumar**, B.K. Yogi, K.S. Golda, S.K. Datta and G. Viesti
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25. Observation of large incomplete fusion in ^{16}O + ^{103}Rh system at $\approx$ 3-5 MeV/nucleon
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26. A compact pulse shape discriminator module for large neutron detector arrays
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27. Measurement and analysis of excitation functions and forward recoil range distribution in $^{12}C + ^{59}Co$ system
Avinash Agarwal, I. A. Rizvi, **R. Kumar**, B. K. Yogi, and A. K. Chaubey
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28. First results with the RISING active stopper
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29. Spherical proton-neutron structure of isomeric states in ^{128}Cd
L. Cáceres, M. Górska, A. Jungclaus, M. Pfützner, H. Grawe, F. Nowacki, K. Sieja, S. Pietri, D. Rudolph, Zs. Podolyák, P. H. Regan, E. Werner-Malento, P. Detistov, S. Lalkovski, V. Modamio, J. Walker, K. Andgren, P. Bednarczyk, J. Benlliure, G. Benzoni, A. M. Bruce, E. Casarejos, B. Cederwall, F. C. L. Crespi, P. Doornenbal, H. Geissel, J. Gerl, J. Grebosz, B. Hadinia, M. Hellström, R. Hoischen, G. Ilie, A. Khaplanov, M. Kmiecik, I. Kojouharov, **R. Kumar**, N. Kurz, A. Maj, S. Mandal, F. Montes, G. Martínez-Pinedo, S. Myalski, W. Prokopowicz, H. Schaffner, G. S. Simpson, S. J. Steer, S. Tashenov, O. Wieland, and H. J. Wollersheim
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32. Investigation of the role of break-up processes on the fusion of ^{16}O induced reactions
Devendra P. Singh, Unnati, Pushpendra P. Singh, Abhishek Yadav, Manoj Kumar Sharma, B. P. Singh, K. S. Golda, **R. Kumar**, A. K. Sinha, and R. Prasad
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33. Absence of entrance channel effects in fission fragment anisotropies of the ^{215}Fr compound nucleus
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T. Trivedi, R. Palit, D. Negi, Z. Naik, Y.-C. Yang, Y. Sun, J. A. Sheikh, A. Dhal, M.K. Raju, S. Appannababu, S. Kumar, D. Choudhury, K. Maurya, G. Mahanto, **R.Kumar**, R. P. Singh, S. Muralithar, A. K. Jain, H. C. Jain, S. C. Pancholi, R. K.Bhowmik, and I. Mehrotra
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40. Evolution of the N = 82 shell gap below ^{132}Sn inferred from core excited states in ^{131}In
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A.I. Morales, J. Benlliure, P.H. Regan, Z. Podolyák, M. Górska, N. Alkhomashi, S. Pietri, **R. Kumar**, E. Casarejos, J. Agramunt, A. Algora, H. lvarez-Pol, G. Benzoni, A. Blazhev, P. Boutachkov, A.M. Bruce, L.S. Cceres, I.J. Cullen, A.M. Denis Bacelar, P. Doornenbal, D. Dragosavac, M.E. Estvez, G. Farrelly, Y. Fujita, A.B. Garnsworthy, W. Gelletly, J. Gerl, J. Grbosz, R. Hoischen, I. Kojouharov, N. Kurz, S. Lalkovski, Z. Liu, D. Prez-Loureiro, W. Prokopowicz, C. Mihai, F. Molina, D. Mücher, B. Rubio, H. Schaffner, S.J. Steer, A. Tamii, S. Tashenov, J.J. Valiente Dobón, S. Verma, P.M. Walker, H.J. Wollersheim, P.J. Woods
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D. Singh, R. Ali, M. Afzal Ansari, K. Surendra Babu, Pushpendra P. Singh, M. K. Sharma, B. P. Singh, Rishi K. Sinha, **R. Kumar**, S. Muralithar, R. P. Singh, and R. K. Bhowmik
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Santosh Roy, Pradip Datta, S. Pal, S. Chattopadhyay, S. Bhattacharya, A. Goswami, H. C. Jain, P. K. Joshi, R. K. Bhowmik, **R. Kumar**, S. Muralithar, R. P. Singh, N. Madhavan, and P. V. Madhusudhana Rao
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Devendra P. Singh, Unnati, Pushpendra P. Singh, Abhishek Yadav, Manoj Kumar Sharma, B. P. Singh, K. S. Golda, **R. Kumar**, A. K. Sinha, and R. Prasad
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