

PUBLICATIONS IN INTERNATIONAL JOURNALS

A. Publications from the projects executed as PI

1. Role of neutron transfer in sub-barrier fusion
Rudra N. Sahoo, Malika Kaushik, Arshiya Sood, Arzoo Sharma, Swati Thakur, Pawan Kumar, Md. Moin Shaikh, Rohan Biswas, Abhishek Yadav, Manoj K. Sharma, J. Gehlot, S. Nath, N. Madhavan, R. G. Pillay, E. M. Kozulin, G. N. Knyazheva, K. V. Novikov, and **Pushpendra P. Singh**
Physical Review C 102, 024615 (2020)
2. Fusion of the Borromean nucleus ^9Be with a ^{197}Au target at near-barrier energies
Malika Kaushik, G. Gupta, Swati Thakur, H. Krishnamoorthy, **Pushpendra P. Singh**, V. V. Parkar, V. Nanal, A. Shrivastava, R. G. Pillay, K. Mahata, K. Ramachandran, S. Pal, C. S. Palshetkar, and S. K. Pandit
Physical Review C 101, 034611 (2020)
3. Evidence of narrow range high spin population in incomplete fusion
Arshiya Sood, Pawan Kumar, Rudra N. Sahoo, **Pushpendra P. Singh**, A. Yadav, V. R. Sharma, M. K. Sharma, R. Kumar, R. P. Singh, S. Muralithar, B. P. Singh, and R. K. Bhowmik
Acta Physica Polonica B 51, no. 3, 775 – 781 (2020)
4. Self-supporting thin Tin targets fabricated by ultra-high vacuum evaporation for heavy-ion induced reactions
Arshiya Sood, G. R. Umapathy, A. Sharma, S. R. Abhilash, S. Ojha, D. Kabiraj, A. Banerjee, **Pushpendra P. Singh**
Vacuum 172, 109107 (2020)
5. Sub-barrier fusion in the $^{37}\text{Cl}+^{130}\text{Te}$ system,
Rudra N. Sahoo, Malika Kaushik, Arshiya Sood, Pawan Kumar, Arzoo Sharma, Swati Thakur, **Pushpendra P. Singh**, P. K. Raina, Md. M. Shaikh, R. Biswas, A. Yadav, J. Gehlot, S. Nath, N. Madhavan, V. Srivastava, M. K. Sharma, B. P. Singh, R. Prasad, A. Rani, A. Banerjee, U. Gupta, N. K. Deb, and B. J. Roy,
Physical Review C 99, 024607 (2019)
6. Insights into the low energy incomplete fusion,
Rudra N. Sahoo, Malika Kaushik, Arshiya Sood, Pawan Kumar, V. R. Sharma, A. Yadav, **Pushpendra P. Singh**, M. K. Sharma, R. Kumar, B. P. Singh, S. Aydin, R. Prasad,
Nuclear Physics A 983, 145 - 165 (2019)
7. Fabrication of thin ^{130}Te target foils for sub-barrier fusion studies,
Rudra N. Sahoo, Naga Jyothi, Arshiya Sood, S. R. Abhilash, G. R. Umapathy, D. Kabiraj, Sunil Ojha, P.V. Madhusudhan Rao, and **Pushpendra P. Singh**
Nuclear Instruments and Methods A 935, 103 – 109 (2019)
8. Proton-neutron force and proton single-particle strength in Sc, F, and Li isotopes
Pawan Kumar, Shahariar Sarkar, **Pushpendra P. Singh**, and P. K. Raina
Physical Review C 100, 024328 (2019)
9. Entrance channel effects on fission fragment mass distribution in $^{12}\text{C}+^{169}\text{Tm}$ system
Arshiya Sood, Pawan Kumar, Rudra N. Sahoo, **Pushpendra P. Singh**, Abhishek Yadav, V. R. Sharma, M. K. Sharma, D. P. Singh, U. Gupta, S. Aydin, R. Kumar, B. P. Singh, and R. Prasad
Acta Physica Polonica B50 (3), 291 (2019)
10. Quasi shell gap at 23F ,
Pawan Kumar, Kanhaiya Jha, P.K. Raina, **Pushpendra P. Singh**,
Nuclear Physics A 983, 210-222 (2019)

11. Entrance Channel Effect on Incomplete Fusion,
Rudra N. Sahoo, Malika Kaushik, Arshiya Sood, Pawan Kumar, Vijay R. Sharma, Abhishek Yadav, Mohd Shuaib, D. P. Singh, **Pushpendra P. Singh**, Unnati Gupta, Manoj K. Sharma, R. Kumar, B.P. Singh, S. Aydin, H. J. Wollersheim, R. Prasad
Acta Physica Polonica B49 (3), 585 (2018)

12. Fission-like events in $^{12}\text{C}+^{169}\text{Tm}$ at low excitation energies
Arshiya Sood, **Pushpendra P. Singh**, Rudra N. Sahoo, Pawan Kumar, A. Yadav, Vijay R. Sharma, Mohd. Shuaib, Manoj K. Sharma, D. P. Singh, Unnati Gupta, R. Kumar, S. Aydin, B. P. Singh, H. J. Wollersheim, and R. Prasad
Physical Review C 96, 014620 (2017)

13. Systematic study of low-energy incomplete fusion: Role of entrance channel parameters
Abhishek Yadav, **Pushpendra P. Singh**, Mohd. Shuaib, V. R. Sharma, Indu Bala, Unnati, S. Gupta, D. P. Singh, M. K. Sharma, R. Kumar, S. Murlithar, R. P. Singh, B. P. Singh, and R. Prasad
Physical Review C 96, 044614 (2017)

14. Precompound emission in low-energy heavy-ion interactions from recoil range and spin distributions of heavy residues: A new experimental method
M. K. Sharma, **Pushpendra P. Singh**, V. R. Sharma, Mohd. Shuaib, D. P. Singh, Abhishek Yadav, Unnati, R. Kumar, B. P. Singh, and R. Prasad
Physical Review C 94, 044617 (2016)

15. Incomplete fusion in $^{16}\text{O}+^{159}\text{Tb}$,
V. R. Sharma, **Pushpendra P. Singh**, M. Shuaib, Abhishek Yadav, Indu Bala, M. K. Sharma, S. Gupta, D. P. Singh, R. Kumar, S. Muralithar, R. P. Singh, B. P. Singh, R. Prasad, R. K. Bhowmik,
Nuclear Physics A 946, 182 - 193 (2016)

16. Systematic study of pre-equilibrium emission at low energies in ^{12}C - and ^{16}O -induced reactions
M. K. Sharma, **Pushpendra P. Singh**, D. P. Singh, Abhishek Yadav, V. R. Sharma, et al.,
Physical Review C 91, 014603 (2015)

17. Signature of pre-equilibrium-emission in forward-to-backward yield ratio measurement
Abhishek Yadav, **Pushpendra P. Singh**, V. R. Sharma, Unnati, D. P. Singh, M. K. Sharma, B.P. Singh, R. Prasad, R. Kumar, R. P. Singh, S. Muralithar and R.K. Bhowmik
International Journal of Modern Physics E 20, 2133-2142 (2011)

18. Probing of incomplete fusion dynamics by spin-distribution measurement
Pushpendra P. Singh, B. P. Singh, M. K. Sharma, Unnati, R. Kumar, D. Singh, S. Muralithar, R. P. Singh, M. A. Ansari, R. Prasad and R. K. Bhowmik
Physics Letters B 671, 20-24 (2009)

19. Role of high l -values in the onset of incomplete fusion
Pushpendra P. Singh, Abhishek Yadav, D. P. Singh, U. Gupta, M. K. Sharma, R. Kumar, D. Singh, S. Muralithar, R. P. Singh, M. A. Ansari, B. P. Singh, R. Prasad and R. K. Bhowmik
Physical Review C 80, 064603 (2009)

20. Disentangling of full and partial LMT events in $^{16}\text{O}+^{169}\text{Tm}$ system at $E_{\text{proj}} \leq 5.4$ MeV/nucleon
Unnati, **Pushpendra P. Singh**, D. P. Singh, M. K. Sharma, Abhishek Yadav, R. Kumar, S. Gupta, H. D. Bhardwaj, B. P. Singh, and R. Prasad
Physical Review C 80, 024613 (2009)

21. Spin distribution studies: A sensitive probe for incomplete fusion reaction dynamics
Pushpendra P. Singh, B. P. Singh, M. K. Sharma, Unnati, R. Kumar, D. Singh, S. Muralithar, R. P. Singh, M. A. Ansari, K. S. Golda, H. D. Bhardwaj, R. Prasad and R. K. Bhowmik
Physical Review C 78, 017602 (2008)
22. Influence of incomplete fusion on complete fusion: Observation of large ICF fraction at $E/A \approx 5-7$ MeV
Pushpendra P. Singh, B. P. Singh, M. K. Sharma, Unnati, D. P. Singh, R. Kumar, K. S. Golda, and R. Prasad
Physical Review C 77, 014607 (2008)
23. Production of fission like events after CF and/or ICF of ^{16}O with ^{159}Tb and ^{169}Tm at $E/A \approx 6$ MeV
Pushpendra P. Singh, B. P. Singh, B. Sharma, Unnati, M. K. Sharma, H. D. Bhardwaj, R. Kumar, K. S. Golda and R. Prasad
International Journal of Modern Physics E17, NO.3, 549-566 (2008)
24. Observation of a large incomplete fusion in $^{16}\text{O}+^{103}\text{Rh}$ system at $E = 40-85$ MeV
Unnati, **Pushpendra P. Singh**, D. P. Singh, M. K. Sharma, B. P. Singh, and R. Prasad
Nuclear Physics A 811, 77-92 (2008)
25. Large pre-equilibrium emission in $\alpha+^{nat}\text{Ni}$ interaction at $\approx 8-45$ MeV
Abhishek Yadav, **Pushpendra P. Singh**, M. M. Musthafa, D. P. Singh, Unnati, M. K. Sharma, B. P. Singh, and R. Prasad
Physical Review C 78, 044606 (2008)
26. Observation of complete- and incomplete-fusion components in $^{159}\text{Tb},^{169}\text{Tm}(^{16}\text{O},x)$ reactions: Measurement and analysis of forward recoil ranges at $E/A \approx 6$ MeV
Pushpendra P. Singh, M. K. Sharma, Unnati, Devendra P. Singh, R. Kumar, B. P. Singh, and R. Prasad
European Physical Journal A34, 29-39 (2007)
27. Examining the Role of Transfer in Sub-barrier Fusion Enhancement: $^{35,37}\text{Cl} + ^{130}\text{Te}$ Systems
Rudra N. Sahoo, Malika Kaushik, Arshiya Sood, Pawan Kumar, Arzoo Sharma, Swati Thakur, **Pushpendra P. Singh**, P. K. Raina, R. Biswas, J. Gehlot, S. Nath, N. Madhavan, A. Yadav, Md. Moin Shaikh, M. K. Sharma, N. K. Deb, A. Rani, A. Banerjee, U. Gupta, B. J. Roy, B. P. Singh and R. Prasad
Jour. Phys. Soc. of Jpn - NN2018-029 (2019), in press

B. Publications from collaborative experiments performed in India

28. Activity induced in different rare earth materials using heavy ion oxygen beam; thin layer activation analysis, Varun Vijay Savadi, D.P. Singh, S.K. Joshi, I. Majeed, Md. Shuaib, V.R. Sharma, A. Yadav, R. Kumar, **P. P. Singh**, Unnati, M.K. Sharma, S. Pandey, B.P. Singh, R. Prasad
Nuclear Inst. and Methods in Physics Research B 479, 102–109 (2020)
29. Mass and isotopic yield distributions of fission-like events in the $^{19}\text{F} + ^{169}\text{Tm}$ system at low energies
Mohd. Shuaib, Vijay R. Sharma, A. Yadav, Swati Thakur, Manoj K. Sharma, Ishfaq Majeed, Mahesh Kumar, **Pushpendra P. Singh**, Devendra P. Singh, R. Kumar, R. P. Singh, S. Muralithar, B. P. Singh, and R. Prasad
Physical Review C 99, 024617 (2019)
30. Fission-like events in the $^{14}\text{N} + ^{181}\text{Ta}$ system
Vijay R. Sharma, R. Kumar, S. Mukherjee, E. F. Aguilera, Mohd. Shuaib, and **Pushpendra P. Singh**, et al.
Physical Review C 99, 034617 (2019)
31. Thin layer activation analysis of ^{16}O induced reactions for surface wear studies in some natural isotopes

V. V. Savadi, Ishfaq Majeed, Mohd Shuaib, Vijay R. Sharma, Abhishek Yadav, D. P Singh, **Pushpendra P Singh**, Unnati, Manoj Kumar Sharma, Rakesh Kumar, B P Singh & R Prasad
Indian Journal of Pure & Applied Physics Vol. 57, 566 – 569 (2019)

32. Analysis of experimental cross-section for (α , n) reactions in odd A and odd Z heavy nuclei: A systematics on pre-compound emission,
M. K. Sharma, Mahesh Kumar, Mohd. Shuaib, Vijay R. Sharma, Abhishek Yadav, **Pushpendra P. Singh**, Devendra P. Singh, B. P. Singh and R. Prasad,
Eur. Phys. J. A 54, 205 (2018)
33. Systematic study of precompound neutron emission in α -particle-induced reactions
M. K. Sharma, Mahesh Kumar, Mohd. Shuaib, Vijay Raj Sharma, Abhishek Yadav, **Pushpendra P. Singh**, B. P. Singh, and R. Prasad,
Physical Review C 98, 054607 (2018)
34. Effects of projectile break-up on fusion cross sections at energies near and above the Coulomb barrier: A case of incomplete fusion,
Mohd. Shuaib, V. R. Sharma, Abhishek Yadav, M. K. Sharma, **Pushpendra P. Singh**, Devendra P. Singh, R. Kumar, R. P. Singh, S. Muralithar, B. P. Singh, and R. Prasad
Physical Review C 98, 014605 (2018)
35. Deep-inelastic multinucleon transfer processes in the $^{16}\text{O}+^{27}\text{Al}$ reaction
B. J. Roy, Y. Sawant, P. Patwari, S. Santra, A. Pal, A. Kundu, D. Chattopadhyay, V. Jha, S. K. Pandit, V. V. Parkar, K. Ramachandran, K. Mahata, B. K. Nayak, A. Saxena, S. Kailas, T. N. Nag, R. N. Sahoo, **P. P. Singh**, K. Sekizawa
Physical Review C 97, 034603 (2018)
36. Influence of incomplete fusion on complete fusion at energies above the Coulomb barrier
Mohammad Shuaib, Vijay Raj Sharma, Abhishek Yadav, Manoj Kumar Sharma, **Pushpendra P. Singh**, Devendra P. Singh, Rakesh Kumar, R P Singh, S Muralithar, B P Singh
Journal of Physics G: Nuclear and Particle Physics, 44, 105108 (2017)
37. Incomplete fusion studies in the $^{19}\text{F}+^{159}\text{Tb}$ system at low energies and its correlation with various systematics
Mohd. Shuaib, Vijay R. Sharma, Abhishek Yadav, **Pushpendra P. Singh**, Manoj Kumar Sharma, Devendra P. Singh, R. Kumar, R. P. Singh, S. Muralithar, B. P. Singh, and R. Prasad
Physical Review C 94, 014613 (2016)
38. Spin distribution measurements in $^{16}\text{O}+^{159}\text{Tb}$ system: incomplete fusion reactions
Vijay R Sharma, Abhishek Yadav, **Pushpendra P Singh**, Indu Bala, Devendra P Singh, Sunita Gupta, M K Sharma, R Kumar, S Muralithar, R P Singh, B P Singh, R K Bhowmik and R Prasad
Journal of Physics G: Nucl. Part. Phys. 42, 055113 (2015), (core author)
39. Low energy incomplete fusion and role of input angular momenta
R Kumar, Vijay R Sharma, A. Yadav, **Pushpendra P Singh**, S. Appamababu, A. Aggarwal, B P Singh, S. Mukherjee, S. Muralithar, R. Ali, R K Bhowmik
Acta Physica Polonica B, vol. 46-3, page 453 (2015)
40. **Experimental study of cross sections in the $^{12}\text{C}+^{127}\text{Al}$ system at $\approx 3-7\text{MeV/nucleon}$ relevant to the incomplete fusion process**
Manoj Kumar Sharma, Abhishek Yadav, Vijay Raj Sharma, Devendra P. Singh, **Pushendra P. Singh**, Unnati, Indu Bala, Rakesh Kumar, B. P. Singh, and R. Prasad
Physical Review C 91, 024608 (2015)

41. Experimental study of incomplete fusion reactions in the $^{16}\text{O} + ^{130}\text{Te}$ system below 6 MeV/nucleon
Devendra P. Singh, Vijay R. Sharma, Abhishek Yadav, **Pushpendra P. Singh**, Unnati, M. K. Sharma, R. Kumar, B. P. Singh, and R. Prasad
PHYSICAL REVIEW C 89, 024612 (2014)
42. Influence of a one-neutron-excess projectile on low energy incomplete fusion
Vijay R. Sharma, Abhishek Yadav, **Pushpendra P. Singh**, Devendra P. Singh, Sunita Gupta, M. K. Sharma, Indu Bala, R. Kumar, S. Muralithar, B. P. Singh, and R. Prasad
PHYSICAL REVIEW C 89, 024608 (2014), (core author)
43. Effect of α -Q value on incomplete fusion
Abhishek Yadav, Vijay R. Sharma, **Pushpendra P. Singh**, R. Kumar, D. P. Singh, Unnati, M. K. Sharma, B. P. Singh, and R. Prasad, **PHYSICAL REVIEW C 86, 014603 (2012), (core author)**
44. Effect of entrance-channel parameters on incomplete fusion reactions
Abhishek Yadav, Vijay R. Sharma, **Pushpendra P. Singh**, Devendra P. Singh, R. Kumar, Unnati, M. K. Sharma, B. P. Singh, R. Prasad, and R. K. Bhowmik
PHYSICAL REVIEW C 85, 064617 (2012), (core author)
45. Large influence of incomplete fusion in $^{12}\text{C} + ^{159}\text{Tb}$ at $E_{\text{lab}} \approx 4\text{-}7$ MeV/nucleon
Abhishek Yadav, Vijay R. Sharma, **Pushpendra P. Singh**, Devendra P. Singh, Manoj K. Sharma, Unnati Gupta, R. Kumar, B. P. Singh, R. Prasad, and R. K. Bhowmik
PHYSICAL REVIEW C 85, 034614 (2012), (core author)
46. Identification of fission-like events in the $^{16}\text{O}+^{181}\text{Ta}$ system: mass and isotopic yield distribution
Vijay R. Sharma, Abhishek Yadav, **Pushpendra P. Singh**, Manoj K. Sharma, Devendra P. Singh, Unnati, R. Kumar, K. S. Golda, B. P. Singh, A. K. Sinha, and R. Prasad
PHYSICAL REVIEW C 84, 014612 (2011), (core author)
47. Enhanced $0^+_{\text{g.s.}} \rightarrow 2^+_{1+}$ E2 transition strength in $^{112,114}\text{Sn}^*$
R. Kumar, P. Doornenbal, A. Jhingan, R.K. Bhowmik, S. Appannababu, P. Bednarczyk, L. Cáceres, J. Cederkäll, A. Ekström, R. Garg, J. Gerl, M. Górska, H. Grawe, J. Kaur, I. Kojouharov, S. Mandal, S. Mukherjee, S. Muralithar, W. Prokopowicz, **Pushpendra P. Singh**, P. Reiter, H. Schaffner, A. Sharma, R.P. Singh, D. Siwal, H.J Wollersheim
ACTA PHYSICA POLONICA B42, 813 (2011)
48. Enhanced $0^+_{\text{g.s.}} \rightarrow 2^+_{1+}$ E2 transition strength in ^{112}Sn
R. Kumar, P. Doornenbal, A. Jhingan, R. K. Bhowmik, S. Muralithar, S. Appannababu, R. Garg, J. Gerl, M. Górska, J. Kaur, I. Kojouharov, S. Mandal, S. Mukherjee, D. Siwal, A. Sharma, **Pushpendra P. Singh**, R. P. Singh, and H. -J. Wollersheim
PHYSICAL REVIEW C 81, 024306 (2010)
49. Energy dependence of incomplete fusion processes in the $^{16}\text{O}+^{181}\text{Ta}$ system: Measurement and analysis of forward-recoil--range distributions at $E_{\text{lab}} \approx 7$ MeV/nucleon
D. P. Singh, Unnati, **Pushpendra P. Singh**, Abhishek Yadav, M. K. Sharma, B. P. Singh, K. S. Golda, R. Kumar, A. K. Sinha and R. Prasad
PHYSICAL REVIEW C 81, 054607 (2010), (core author)
50. Incomplete fusion dynamics by spin distribution measurements
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
PHYSICAL REVIEW C 81, 027602 (2010)

51. Investigation of the role of break-up processes on the fusion of ^{16}O induced reactions
 D. P. Singh, Unnati, **Pushpendra P. Singh**, Abhishek Yadav, M. K. Sharma, B. P. Singh, K. S. Golda, R. Kumar, A. K. Sinha and R. Prasad
PHYSICAL REVIEW C80, 014601 (2009), (core author)
52. Reaction mechanism in $^{16}\text{O}+^{27}\text{Al}$ system: Measurement and analysis of excitations and angular distributions
 M. K. Sharma, Unnati, D. P. Singh, **Pushpendra P. Singh**, B. P. Singh, and R. Prasad
PHYSICAL REVIEW C75, 064608 (2007)
53. A study of pre-equilibrium emission of neutrons in $^{93}\text{Nb}(\alpha, xn)$ reactions
 M. K. Sharma, H.D. Bhardwaj, Unnati, **Pushpendra P. Singh**, D. P. Singh, B.P. Singh and R. Prasad
EUROPEAN PHYSICAL JOURNAL A31, 43-51 (2006)

C. Publications from International Collaborations

54. Benchmarking the PreSPEC@GSI experiment for Coulex-multipolarimetry on the $\pi(p3/2) \rightarrow \pi(p1/2)$ spin-flip transition in ^{85}Br
 P. Napiralla, M. Lettmann, C. Stahl, G. Rainovski, N. Pietralla, ..., E. Sanchis, L. G. Sarmiento, H. Schaffner, J. Simpson, P. P. Singh, J. J. Valiente-Dobón, V. Werner and O. Wieland
European Physical Journal A 56, 147 (2020)
55. Formation and Decay of the Composite System $Z = 120$ in Reactions with Heavy Ions at Energies Near the Coulomb Barrier
 K. V. Novikova, E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, A. V. Karpov, M. G. Itkis, I. N. Diatlov, M. Cheralu, B. Gall, Z. Asfari, N. I. Kozulina, D. Kumar, I. V. Pchelintsev, V. N. Loginov, A. E. Bondarchenko, **P. P. Singh**, I. V. Vorobiev, S. Heinzd, W. H. Trzaska, E. Vardaci, N. Tortorelli, C. Borcea, and I. Harca
Bulletin of the Russian Academy of Sciences: Physics, Vol. 84, No. 4, pp. 495–499 (2020)
56. Lifetime measurements of $N \approx 20$ phosphorus isotopes using the AGATA γ -ray tracking spectrometer
 L. Grocutt, R. Chapman, M. Bouhelal, F. Haas, A. Goasduff, J. F. Smith, S. Courtin, D. Bazzacco, T. Braunroth, L. Capponi, L. Corradi, X. Derkx, P. Desesquelles, M. Doncel, E. Fioretto, A. Gottardo, V. Liberati, B. Melon, D. Mengoni, C. Michelagnoli, T. Mijatović, V. Modamio, G. Montagnoli, D. Montanari, K. F. Mulholland, D. R. Napoli, C. Petrache, A. Pipidis, F. Recchia, E. Sahin, **P. P. Singh**, A. M. Stefanini, S. Szilner, and J. J. Valiente-Dobón
Phys. Rev. C 100, 064308 (2019)
57. Isospin dependence of electromagnetic transition strengths among an isobaric triplet
 A Boso, S.A. Milne, M.A. Bentley, F. Recchia, S.M. Lenzi, D. Rudolph, M. Labiche, X. Pereira-Lopez, S. Afara, F. Ameil, T. Arici, S. Aydin, M. Axiotis, D. Barrientos, G. Benzoni, B. Birkenbach, A.J. Boston, H.C. Boston, P. Boutachkov, A. Bracco, A.M. Bruce, B. Bruyneel, B. Cederwall, E. Clement, M.L. Cortes, D.M. Cullen, P. Désesquelles, Zs. Dombrádi, C. Domingo-Pardo, J. Eberth, C. Fahlander, M. Gelain, V. González, P.R. John, J. Gerl, P. Golubev, M. Górska, A. Gottardo, T. Grahna, L. Grassi, T. Habermann, L.J. Harkness-Brennano, T.W. Henryb, H. Hess, I. Kojouharov, W. Korten, N. Lalovic, M. Lettmann, C. Lizarazo, C. Louchart-Henning, R. Menegazzo, D. Mengoni, E. Merchan, C. Michelagnoli, B. Million, V. Modamio, T. Moeller, D.R. Napoli, J. Nyberg, B.S. Nara Singh, H. Pai, N. Pietralla, S. Pietri, Zs. Podolyak, R.M. Perez Vidal, A. Pullia, D. Ralet, G. Rainovski, M. Reese, P. Reiter, M.D. Salsac, E. Sanchis, L.G. Sarmiento H. Schaffner, L.M. Scruton, **P.P. Singh**, C. Stahl, S. Uthayakumar, J.J. Valiente-Dobón, O. Wieland
Physics Letters B 797, 134835 (2019)
58. Study of isomeric states in $^{198,200,202,206}\text{Pb}$ and ^{206}Hg populated in fragmentation reactions
 N Lalović, D Rudolph, Zs Podolyák, L G Sarmiento, E C Simpson, T Alexander, M L Cortés, J Gerl, P Golubev, F Ameil, T Arici, Ch Bauer, D Bazzacco, M A Bentley, P Boutachkov, M Bowry, C Fahlander, A Gadea, J Gellanki, A

Givechev, N Goel, M Górska, A Gottardo, E Gregor, G Guastalla, T Habermann, M Hackstein, A Jungclaus, I Kojouharov, R Kumar, N Kurz, M Lettmann, C Lizarazo, C Louchart, E Merchán, C Michelagnoli, Th Moeller, K Moschner, Z Patel, N Pietralla, S Pietri, D Ralet, M Reese, P H Regan, P Reiter, H Schaffner, **P Singh**, C Stahl, R Stegmann, O Stezowski, J Taprogge, P Thöle, A Wendt, O Wieland, E Wilson, R Wood, H-J Wollersheim, B Birkenbach, B Bruyneel, I Burrows, E Clément, P Désesquelles, C Domingo-Pardo, J Eberth, V González, H Hess, J Jolie, D S Judson, R Menegazzo, D Mengoni, D R Napoli, A Pullia,16, B Quintana, G Rainovski, M D Salsac, E Sanchis, J Simpson, J J Valiente Dóbon and the AGATA Collaboration
Journal of Physics G: Nuclear and Particle Physics, vol. 45, No. 3, 035105 (2018)

59. High-spin states and lifetimes in ^{33}S and shell-model interpretation in the sd- f p space

S. Aydin, M. Ionescu-Bujor, G. Tz. Gavrilo, B. I. Dimitrov, S. M. Lenzi, F. Recchia, D. Tonev, M. Bouhelal, F. Kavillioglu, P. Pavlov, D. Bazzacco, P. G. Bizzeti, A. M. Bizzeti-Sona, G. de Angelis, I. Deloncle, E. Farnea, A. Gadea, A. Gottardo, N. Goutev, F. Haas, T. Huyuk, H. Laftchiev, S. Lunardi, Tz. K. Marinov, D. Mengoni, R. Menegazzo, C. Michelagnoli, D. R. Napoli, P. Petkov, E. Sahin, **P. P. Singh**, E. A. Stefanova, C. A. Ur, J. J. Valiente-Dobón, and M. S. Yavahchova
Phys. Rev. C 96, 024315 (2017)

60. Lifetime measurement of neutron-rich even-even molybdenum isotopes

D. Ralet, S. Pietri, T. Rodríguez, M. Alaqeel, T. Alexander, N. Alkhomashi, F. Ameil, T. Arici, A. Ataç, R. Avigo, T. Bäck, D. Bazzacco, B. Birkenbach, P. Boutachkov, B. Bruyneel, A. M. Bruce, F. Camera, B. Cederwall, S. Ceruti, E. Clément, M. L. Cortés, D. Curien, G. De Angelis, P. Désesquelles, M. Dewald, F. Didierjean, C. Domingo-Pardo, M. Doncel, G. Duchêne, J. Eberth, A. Gadea, J. Gerl, F. Ghazi Moradi, H. Geissel, T. Goigoux, N. Goel, P. Golubev, V. González, M. Górska, A. Gottardo, E. Gregor, G. Guastalla, A. Givechev, T. Habermann, M. Hackstein, L. Harkness-Brennan, G. Henning, H. Hess, T. Hüyük, J. Jolie, D. S. Judson, A. Jungclaus, R. Knoebel, ..., E. Merchán, B. Million, A. I. Morales, D. Napoli, F. Naqvi, J. Nyberg, N. Pietralla, Zs. Podolyák, A. Pullia, A. Prochazka, B. Quintana, G. Rainovski, M. Reese, F. Recchia, P. Reiter, D. Rudolph, M. D. Salsac, E. Sanchis, L. G. Sarmiento, H. Schaffner, C. Scheidenberger, L. Sengele, B. S. Nara Singh, **P. P. Singh**, C. Stahl, O. Stezowski, P. Thoele, J. J. Valiente Dobon, H. Weick, A. Wendt, O. Wieland, J. S. Winfield, H. J. Wollersheim, and M. Zielinska (for the PreSPEC, PreSPEC and AGATA Collaborations)
Phys. Rev. C 95, 034320 (2017)

61. Isomeric Ratios in ^{206}Hg

T. Alexander, Zs. Podolyák, M.L. Cortes, J. Gerl, D. Rudolph, L.G. Sarmiento, F. Ameil, T. Arici, D. Bazzacco, Ch. Bauer, M.A. Bentley, A. Blazhev, M. Bowry, P. Boutachkov, R. Carroll, C. Fahlander, A. Gadea, J. Gellanki, W. Gelletly, A. Givechev, N. Goel, P. Golubev, M. Górska, A. Gottardo, E. Gregor, G. Guastalla, T. Habermann, M. Hackstein, A. Jungclaus, I. Kojouharov, W. Korten, S. Kumar, N. Kurz, N. Lalović, M. Lettmann, C. Lizarazo, C. Louchart, S. Mandal, E. Merchán, C. Michelagnoli, Th. Möller, K. Moschner, Z. Patel, N. Pietralla, S. Pietri, D. Ralet, M. Reese, P.H. Regan, P. Reiter, H. Schaffner, **Pushpendra P. Singh**, C. Stahl, R. Stegmann, O. Stezowski, J. Taprogge, P. Thöle, P.M. Walker, O. Wieland, A. Wendt, E. Wilson, R. Wood, H.-J. Wollersheim
Acta Physica Polonica B, vol. 46-3, page 601 (2015)

62. Shell evolution beyond $N=40$: $\text{Cu}_{69,71,73}$

E. Sahin, M. Doncel, K. Sieja, G. de Angelis, A. Gadea, B. Quintana, A. Górgen, V. Modamio, D. Mengoni, J. J. Valiente-Dobón, P. R. John, M. Albers, D. Bazzacco, G. Benzoni, B. Birkenbach, B. Cederwall, E. Clément, D. Curien, L. Corradi, P. Désesquelles, A. Dewald, F. Didierjean, G. Duchêne, J. Eberth, M. N. Erduran, E. Farnea, E. Fioretto, G. de France, C. Fransen, R. Gernhäuser, A. Gottardo, M. Hackstein, T. Hagen, A. Hernández-Prieto, H. Hess, T. Hüyük, A. Jungclaus, S. Klupp, W. Korten, A. Kusoglu, S. M. Lenzi, J. Ljungvall, C. Louchart, S. Lunardi, R. Menegazzo, C. Michelagnoli, T. Mijatović, B. Million, P. Molini, G. Montagnoli, D. Montanari, O. Möller, D. R. Napoli, A. Obertelli, R. Orlandi, G. Pollarolo, A. Pullia, F. Recchia, P. Reiter, D. Rosso, W. Rother, M.-D. Salsac, F. Scarlassara, M. Schlarb, S. Siem, **Pushpendra P. Singh**, P.-A. Söderström, A. M. Stefanini, O. Stézowski, B. Sulignano, S. Szilner, Ch. Theisen, C. A. Ur, and M. Yalcinkaya
Physical Review C 91, 034302 (2015)

63. High-spin level structure of ^{35}S
 S. Aydin, M. Ionescu-Bujor, F. Recchia, S. M. Lenzi, M. Bouhelal, D. Bazzacco, P. G. Bizzeti, A. M. Bizzeti-Sona, G. de Angelis, I. Deloncle, E. Farnea, A. Gadea, A. Gottardo, F. Haas, T. Huyuk, H. Laftchiev, S. Lunardi, D. Mengoni, R. Menegazzo, C. Michelagnoli, D. R. Napoli, A. Poves, E. Sahin, **P. P. Singh**, D. Tonev, C. A. Ur, and J. J. Valiente-Dobón
PHYSICAL REVIEW C 89, 014310 (2014)
64. Collective nature of low low-lying excitations in $^{70,72,74}\text{Zn}$ from lifetime measurements using the AGATA spectrometer demonstrator
 C. Louchart, A. Obertelli, A. Görgen, W. Korten, D. Bazzacco, B. Birkenbach, B. Bruyneel, E. Clément, P. J. Coleman-Smith, L. Corradi, D. Curien, G. de Angelis, G. de France, J.-P. Delaroche, A. Dewald, F. Didierjean, M. Doncel, G. Duchêne, J. Eberth, M. N. Erduran, E. Farnea, C. Finck, E. Fioretto, C. Fransen, A. Gadea, M. Girod, A. Gottardo, J. Grebosz, T. Habermann, M. Hackstein, T. Huyuk, J. Jolie, D. Judson, A. Jungclaus, N. Karkour, S. Klupp, R. Krücken, A. Kusoglu, S. M. Lenzi, J. Libert, J. Ljungvall, S. Lunardi, G. Maron, R. Menegazzo, D. Mengoni, C. Michelagnoli, B. Million, P. Molini, O. Möller, G. Montagnoli, D. Montanari, D. R. Napoli, R. Orlandi, G. Pollarolo, A. Prieto, A. Pullia, B. Quintana, F. Recchia, P. Reiter, D. Rosso, W. Rother, E. Sahin, M.-D. Salsac, F. Scarlassara, M. Schlarb, S. Siem, **Pushpendra P. Singh**, P.-A. Söderström, A. M. Stefanini, O. Stézowski, B. Sulignano, S. Szilner, Ch. Theisen, C. A. Ur, J. J. Valiente-Dobón, and M. Zielinska
PHYSICAL REVIEW C 87, 054302 (2013)
65. High-spin structure and intruder excitations in ^{36}Cl
 S. Aydin, F. Recchia, M. Ionescu-Bujor, A. Gadea, S. M. Lenzi, S. Lunardi, C. A. Ur, D. Bazzacco, P. G. Bizzeti, A. M. Bizzeti-Sona, M. Bouhelal, G. de Angelis, I. Deloncle, E. Farnea, A. Gottardo, F. Haas, T. Huyuk, H. Laftchiev, D. Mengoni, R. Menegazzo, C. Michelagnoli, D. R. Napoli, E. Sahin, **Pushpendra P. Singh**, D. Tonev, and J. J. Valiente-Dobón
PHYSICAL REVIEW C 86, 024320 (2012)
66. Fusion of $^{40}\text{Ca} + ^{40}\text{Ca}$ and other Ca + Ca systems near and below the barrier
 G. Montagnoli, A. M. Stefanini, C. L. Jiang, H. Esbensen, L. Corradi, S. Courtin, E. Fioretto, A. Goasduff, F. Haas, A. F. Kifle, C. Michelagnoli, D. Montanari, T. Mijatović, K. E. Rehm, R. Silvestri, **Pushpendra P. Singh**, F. Scarlassara, S. Szilner, X. D. Tang, and C. A. Ur
PHYSICAL REVIEW C 85, 024607 (2012)
67. Cross-coincidences in the $^{136}\text{Xe}+^{208}\text{Pb}$ Deep-inelastic Reaction
 R.S. Kempley, Zs. Podolyák, D. Bazzacco, A. Gadea, E. Farnea, J.J. Valiente-Dobón, D. Mengoni, F. Recchia, E. Sahin, A. Gottardo, L. Corradi, E. Fioretto, S. Szilner, V. Anagnostatou, N. Al-Dahan, G. De Angelis, M. Bellato, B. Berti, D. Bortolato, M. Bowry, M. Bunce, P. Cocconi, A. Colombo, Zs. Dombrádi, C. Fanin, W. Gelletly, R. Isocrate, S. Ketenci, N. Kondratyev, I. Kuti, P.J.R. Mason, C. Michelagnoli, T. Mijatovic, P. Molini, G. Montagnoli, D. Montanari, M. Nakhostin, D.R. Napoli, D. Pellegrini, P.H. Regan, G. Rampazzo, P. Reiter, D. Rosso, F. Scarlassara, A. Stefanini, **Pushpendra P. Singh**, N. Toniolo, C.A. Ur
ACTA PHYSICA POLONICA B42, 717 (2011)
68. Near-barrier fusion and barrier distribution of $^{58}\text{Ni}+^{54}\text{Fe}$
 M. Stefanini, G. Montagnoli, L. Corradi, S. Courtin, E. Fioretto, A. Goasduff, F. Hass, P. Mason, R. Silvestri, **Pushpendra P. Singh**, F. Scarlassara, and S. Szilner
PHYSICAL REVIEW C 81, 037601 (2010)
69. Fusion hindrance for $^{58}\text{Ni}+^{54}\text{Fe}$
 M. Stefanini, G. Montagnoli, L. Corradi, S. Courtin, E. Fioretto, A. Goasduff, F. Hass, P. Mason, R. Silvestri, **Pushpendra P. Singh**, F. Scarlassara, and S. Szilner
PHYSICAL REVIEW C 82, 014614 (2010)
70. Fusion hindrance for Ca + Ca systems: influence of neutron excess

C. L. Jiang, A. M. Stefanini, H. Esbensen, K. E. Rehm, L. Corradi, E. Fioretto, P. Mason, G. Montagnoli, F. Scarlassara, R. Silvestri, **Pushpendra P. Singh**, S. Szilner, X. D. Tang, C. A. Ur
PHYSICAL REVIEW C 82, 041601(R) (2010)

3. INVITED TALKS/SEMINARS/COLLOQUIUM

1. Invited talk on **“Facets of sub-barrier fusion”** at the **Aligarh Muslim University, Aligarh** during the centenary celebration conference on **“Frontiers of Nuclear Reactions and Spectroscopy”** held from March 2 – 4, 2020.
2. Delivered an expert talk on **“Big stories of a tiny nucleus”** at the **JC University of Science and Technology, YMCA, Faridabad, Haryana**, on February 07, 2020.
3. Plenary talk on **“Does neutron transfer influence sub-barrier fusion?”** during **64th DAE-BRNS Symposium on Nuclear Physics** held at the Department of Physics, Lucknow University, Lucknow from December 23-27, 2019
4. Delivered a talk on **“Insights into the low energy nuclear reactions”** during DAE-BRNS Theme Meeting on **“Nuclear Reactions Involving Weakly Bound Stable and Radioactive Ion Beams”** held at DAE Convention Centre Auditorium B, Anushaktinagar, Mumbai from December 1-3, 2019.
5. Delivered a talk on **“Possible detectors for nuclear reactions”** during DAE-BRNS Theme Meeting on Future Facilities for **Nuclear Reactions Involving Weakly Bound Stable and Radioactive Ion Beams** held at DAE Convention Centre Auditorium B, Anushaktinagar, Mumbai from December 1-3, 2019.
6. Delivered a seminar on **“Role of Science and Technology in our Life”**, at **GGNK College Ludhiana, Punjab University**, on February 15, 2019
7. **6th IAPT National Student Symposium on Physics**, organized by the Indian Association of Physics Teachers, October 4 - 6, 2018, Panjab University, Chandigarh, Nuclear interactions: from what we know to applications
8. **Insights into the low energy incomplete fusion, Department** of Nuclear Physics, Australian National University, Australia, July 18, 2018,
9. Delivered a seminar on **“Nucleus for humankind”** during **International Conference on “Science and Technology: Trends and Challenges**, organized by Punjab Academy of Sciences and Punjab University at GGNK College Ludhiana, April 16 – 17, 2019
10. Presented an invited talk on, **“How well do we understand nuclear reactions around the Coulomb barrier – a few answers & questions”** during an **“International Conference in Nuclear Physics with energetic heavy-ion beams”** held at Punajb University Chandigarh from March 15 - 18, 2017, Conference Proceeding I-31, page no. 48
11. Delivered a module course on **“LISE++ (Kentele, GLOBAL, CHARGE, PAVE-IV), a tool to tune a fragment separator for energetic beam selection”** during School on Physics and Instrumentation for NuSTAR – FAIR (SPIN 2016) organized by FAIR Coordination Center (FCC) in India at Calicut University, Kerala from November 15 – 19, 2016.
12. Presented an invited talk on **“Hindrance or no-hindrance: what do we (don’t) know about sub-barrier fusion”** at Department of Physics of A. M. University Aligarh, February 15 – 16, 2016, during a national conference on **“Recent Trends in Nuclear Physics”**.

13. Presented an invited talk on **“Photo Nuclear Reactions at LCS”** at NewSUBARU, University of Hyogo, Japan, November 11 – 12, 2015 during international workshop on **“Laser Compton Scattering Gamma Ray Sources and their Applications”**.
14. Invited to present a seminar on **“What do we (and don’t) know about low energy nuclear reactions”** at University of Aksaray, Turkey in August 2015.
15. Invited to present a talk on **“Unexpected Onset of Incomplete Fusion at Near Barrier Energies”** during an "International Workshop of Laser Compton Scattering Gamma Rays at Electron Storage Rings" scheduled to be held at University of Saskatchewan and Canadian Light Source, Saskatoon, SK, CANADA from November 7th-11th, 2014
16. Invited review talk: **low energy incomplete fusion**, September 24-26, 2014: International Conference on **“Dark Matter, Hadron Physics and Fusion Physics”** held in Messina, **ITALY**
17. LYCCA at PreSPEC+AGATA Commissioning, 11-13 June 2012: AGATA week, GSI Helmholtz Centre for Heavy Ion Research GmbH, Darmstadt, **GERMANY**
18. **Unexpected show up of incomplete fusion at slightly above barrier energies**, 8th February 2011: GSI Helmholtz Centre for Heavy Ion Research GmbH, Darmstadt, **GERMANY**
19. **Insights into the incomplete fusion dynamics at 4-7 MeV/nucleon**, 2nd June 2010: Division of Experimental Physics, **Ruđer Bošković Institute, Zagreb, CROATIA**
20. **Probing of Incomplete fusion dynamics at energies ~ 4-7 MeV/nucleon**, 15th January 2009: National Symposium on Nuclear Physics (NSNP09), **Kannur University, Kerala, INDIA**
21. Presented a **“Summary Talk”** of National Symposium on Nuclear Physics (**NSNP09**), held at Payyanur, Kannur Central University, Kerala, 13-15th January 2009.
22. Recent results on Incomplete fusion dynamics at E/A ~ 4-7 MeV, 26th February 2009: Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research (**TIFR**), **Mumbai, INDIA**
23. Spin-distribution as a sensitive probe for incomplete fusion dynamics, 21-22nd August 2008: 26th Young Physicists Colloquium (YPC’08), Organized by Indian Physical Society, Saha Institute of Nuclear Physics (**SINP**), **Kolkata, INDIA**
24. Incomplete fusion dynamics at 4-7 MeV/nucleon, 9th September 2008: Poland Academy of Sciences (PAN), **Institute of Nuclear Physics, Krakow, POLAND**

4. SCIENTIFIC RESPONSIBILITIES

1. **Year 2018 | Principal Investigator** of a project entitled, **“Understanding the interplay of different nuclear reactions at low incident energies”**. A beam time account (BTA) of 42 accelerator shifts has been approved by Accelerator Users Committee of the IUAC, New Delhi, India for the PhD thesis of **Ms. Malika Kaushik**.
2. **Year 2016 | Principal Investigator** of a project entitled, **“Exploring the effect of breakup channel(s) on fusion from sub- to above- barrier energies”**. A beam time account (BTA) of 42 accelerator shifts has been approved by Accelerator Users Committee of the IUAC, New Delhi, India for the PhD thesis of **Ms. Arshiya Sood**.
3. **Year 2016 |** Appointed as one of the experts by DG (NS&M) Defence Laboratory Jodhpur vide letter no. DGNSM/06/6015/NURASEF/PRC dated 26.07.2016 to review a Project on **“Establishment of Nuclear Radiation Shielding Evaluation Facility at DL, Jodhpur”**. Project Review Meeting held at Defence Laboratory Jodhpur on August 23, 2016.

4. **Year 2014 | Principal Investigator** of a project entitled, “**Probing of (multi-) nucleon-transfer events around the barrier**”. A beam time account (BTA) of 36 accelerator shifts has been approved by Accelerator Users Committee of the IUAC, New Delhi, India for the PhD thesis of **Mr. Rudra N. Sahoo**.
5. **Year 2013 | Principal Investigator** of a project entitle, “**Towards the understanding of the transition of nuclear reactions from sub-barrier to above barrier energies**”, IUAC, New Delhi, India.
6. **Year 2011 – 2013 | Local Technical Coordinador** of LYCCA setup and lower-end electronics of **AGATA** at GSI for the PRESPEC-AGATA campaign.
7. **Year 2010 | Co-spokesperson**: Test of the kinematic coincidence technique in conjunction with the magnetic spectrometer PRISMA: 4 days of beam time approved (with Prof. Enrico Fioretto of LNL, Italy) INFN-Laboratori Nazionali di Legnaro (**LNL**), **ITALY (PAC February 2010)**
8. **Year 2010 | Co-spokesperson: PAC32 / CASLEAD / Towards understanding the transition from transfer to energy dissipation in reactions of ^{32}S and ^{40}Ca with ^{208}Pb : 8 days of beam time approved. (with Dr. M. Evers and Prof. Ms. Mahananda Dasgupta of Nuclear Reaction group, Canberra, Australia) INFN-Laboratori Nazionali di Legnaro (**LNL**), **ITALY (PAC July 2010)****
9. **Year 2009 | Co-spokesperson: BTA (AUC-July 2009) / absorptive breakup studies using non-alpha-cluster nuclei (With Dr. Rakesh Kumar) at the Inter-University Accelerator Center (IUAC), New Delhi, INDIA**
10. **Year 2005 | Spokesperson: BTA (AUC38) / probing of incomplete fusion dynamics at $E/A = 4\text{-}7\text{MeV}$: a Ph.D. Beam Time Account (BTA) of 15 days (15+15+15 = 45 shifts) has been sanctioned, (AUC July 2005).**

5. CONFERENCE/WORKSHOPS/SYMPOSIA ORGENIZED

- GIAN Course on "**Nuclear Radiations for Medicine, Agriculture and National Security - A Multidisciplinary Approach**" during March 04 - 10, 2019 IIT Ropar.
- GIAN course on "**Particle and Radiation Detectors: Advances & Applications**" during November 05 - 11, 2018 at IIT Ropar.
- A week-long workshop on “**Neutrinoless Double Beta Decay (NDBD – 2016)**” jointly organized with the Tata Institute of Fundamental Research (TIFR), Mumbai at IIT Ropar from October 17 - 21, 2016.
- One-day meeting on "**Neutrinoless Double Beta Decay and Dark Matter: Present & Future**" has been conducted at HP University Shimla on October 22, 2016.
- Organized an "**International Workshop of Laser Compton Scattering Gamma Rays at Electron Storage Rings**" at the University of Saskatchewan, Saskatoon, CANADA from November 7th-11th, 2014 jointly with Prof. Prof. C. Rangacharyulu of UoS, Canada and Prof. Schin Date’ of SPring-8, Japan

6. PUBLICATIONS IN PEER REVIEWED INTERNATIONAL CONFERENCE PROCEEDINGS

1. Spin-tensor decomposition: A useful tool for shell model effective interaction
Pawan Kumar, Shahariar Sarkar, **Pushpendra P. Singh** and P. K. Raina
European Physics Journal: WoC 223, 01029 (2019)
2. Investigation of Incomplete Fusion events: Recent Results,
Vijay R Sharma, Mohd. Shuaib, **Pushpendra P. Singh**, Abhishek Yadav, Manoj K. Sharma, R. Kumar, B. P. Singh, S. Muralithar, R. P. Singh, R. K. Bhowmik, and R. Prasad
Journal of Physics: CS 1078, 012020 (2018)

3. Pre-compound emission in low-energy heavy-ion interactions,
Manoj Kumar Sharma, Mohd. Shuaib, Vijay R. Sharma, Abhishek Yadav, **Pushpendra P. Singh**, Devendra P. Singh, Unnati, B. P. Singh and R. Prasad
European Physics Journal: WoC 163, 00053 (2017)
4. Effect of projectile on incomplete fusion reactions at low energies,
Vijay R. Sharma, Mohd. Shuaib, Abhishek Yadav, Pushpendra P. Singh, Manoj K. Sharma, R. Kumar, D. P. Singh, B. P. Singh, S. Muralithar, R. P. Singh, R. K. Bhowmik and R. Prasad,
European Physics Journal: WoC 163, 00054 (2017)
5. Nuclear astrophysics with radioactive ions at FAIR,
R Reifarth, S Altstadt, K Göbel, T Heftrich^{1,2}, M Heil², A Koloczek^{1,2}, C Langer^{1,2,60}, R Plag^{1,2}, M Pohl¹, K Sonnabend¹, and , **P. Singh**, with R3B Collaboration
Journal of Physics: Conference Series, Volume 665, 012044 (2016)
6. Competition between the compound and the pre-compound emission processes in α -induced reactions at near astrophysical energy to well above it
Manoj Kumar Sharma, Vijay Raj Sharma, Abhishek Yadav, **Pushpendra P Singh**, B. P. Singh and R. Prasad
Journal of Physics: Conf. Ser. 703 – 1, (2016)
7. Systematics for low energy incomplete fusion: Still a puzzle?
Abhishek Yadav, Mohd Shuaib, Abhay V. Aggarwal, Vijay R. Sharma, Indu Bala, D. P. Singh, **P. P. Singh**, Unnati, M. K. Sharma, R. Kumar, R. P. Singh, S. Muralithar, B. P. Singh and R. Prasad
European Physics Journal: Conf. Ser. 117, 08022 (2016),
8. Lifetime measurements and the high-spin structure of ^{36}Cl
S Aydin, M Ionescu-Bujor, F Recchia, A Gadea, S M Lenzi, S Lunardi, C A Ur, D Bazzacco, P G Bizzeti, A M Bizzeti-Sona, M Bouhelal, G de Angelis, I Deloncle, E Farnea, A Gottardo, F Haas, T Huyuk, H Laftchiev, D Mengoni, R Menegazzo, C Michelagnoli, D R Napoli, E. Sahin, **P P Singh**, D Tonev and J J Valiente-Dobón
Journal of Physics: Conf. Ser. 590, 012036 (2015)
9. Reconciliation of mass-asymmetry systematics for incomplete fusion
Pushpendra P Singh, Abhishek Yadav, Vijay R Sharma, R Kumar, Manoj K Sharma, B P Singh, R P Singh, S Muralithar, R K Bhowmik and R Prasad (for the AMU-IUAC collaboration)
Journal of Physics: Conf. Ser. 590, 012031 (2015)
10. Incomplete fusion reactions in $^{16}\text{O}+^{159}\text{Tb}$ system: Spin distribution measurements,
Vijay R. Sharma, Abhishek Yadav, Devendra P. Singh, **Pushpendra P. Singh**, Sunita Gupta, Manoj K. Sharma, Indu Bala, R. Kumar, S. Muralithar, R. P. Singh, B. P. Singh, R. Prasad and R. K. Bhowmik,
European Physics Journal: WoC 86, 00046 (2015)
11. Observation of incomplete fusion at low angular momenta,
Devendra P. Singh, Abhishek Yadav, Indu Bala, Anubhav Raghav, Mohd. Shuaib, Prabhat Kumar, **Pushpendra P. Singh**, Unnati, M. K. Sharma, Vijay R. Sharma, R. Kumar, R. K. Gupta, B. P. Singh and R. Prasad,
European Physics Journal: WoC 86, 00050 (2015)
12. Low energy incomplete fusion and its relevance to the synthesis of super heavy elements,
Abhishek Yadav, P Kumar, A Raghav, Mohd Shuaib, V R Sharma, D P Singh, **Pushpendra P. Singh**, Sunita Gupta, U Gupta, M K Sharma, Indu Bala, R Kumar, S Muralithar, R P Singh, B P Singh and R Prasad,
European Physics Journal: WoC 86, 00064 (2015)
13. On the Road to FAIR: 1st Operation of AGATA in PreSPEC at GSI

N. Pietralla, M. Reese, M.L. Cortes, F. Ameil, D. Bazzacco, M.A. Bentley, P. Boutachkov, C. Domingo-Pardo, A. Gadea, J. Gerl, N. Goel, P. Golubev, M. Górska, G. Guastalla, T. Habermann, I. Kojouharov, W. Korten, E. Merchán, S. Pietri, D. Ralet, P. Reiter, D. Rudolph, H. Schaffner, **Pushpendra P. Singh**, O. Wieland, and H.J. Wollersheim for PreSPEC-AGATA collaboration

EUROPEAN PHYSICAL JOURNAL: WoC 66, 02083 (2014)

14. Understanding the onset of incomplete fusion

Pushpendra P. Singh, Abhishek Yadav, Vijay R. Sharma, D. P. Singh, R. Kumar, R. P. Singh, S. Muralithar, B. P. Singh, R. K. Bhowmik, R. Prasad, and the AMU-IUAC collaboration

JOURNAL OF PHYSICS: Conf. Ser. 515, 012021 (2014)

15. Incomplete fusion reactions at low energies in $^{13}\text{C}+^{169}\text{Tm}$ system

Vijay R. Sharma, Abhishek Yadav, Devendra P. Singh, **Pushpendra P. Singh**, Indu Bala, R. Kumar, M. K. Sharma, S. Gupta, S. Muralithar, R. P. Singh, B. P. Singh and R. Prasad

EUROPEAN PHYSICAL JOURNAL: WoC 66, 03079 (2014)

16. Low energy in-complete fusion: The α -Q-value systematic

Abhishek Yadav, Vijay R. Sharma, Devendra P. Singh, **Pushpendra P. Singh**, Unnati, M. K. Sharma, R. Kumar, B. P. Singh, and R. Prasad

AIP Conference Proceedings, Volume 1524, 197-200 (2013)

17. Systematic study of projectile structure effect in fusion reactions at low energies

Vijay R. Sharma, Abhishek Yadav, Devendra P. Singh, **Pushpendra P. Singh**, Unnati Gupta, Manoj K. Sharma, R. Kumar, B. P. Singh, and R. Prasad

AIP Conference Proceedings, Volume 1524, 201-204 (2013)

18. How does incomplete fusion show up at slightly above barrier energies?

Pushpendra P. Singh, Yadav Abhishek, Vijay R. Sharma, R. Kumar, B. P. Singh, R. K. Bhowmik, R. Prasad and the AMU-IUAC collaboration

EUROPEAN PHYSICS JOURNAL WoC 21, 10009 (2012)

19. Effect of alpha-Q-value on reaction dynamics at $\approx 4-7$ AMeV

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