

Paper Publication in National / International Journal(s)

Sl.No	Title of the paper	Name of Co -Authors	Name of Journal	Page(s)	Volume & Year
1	Evidence for octupole correlation 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, R. Kumar, R. P. Singh, and M. Kumar Raju	Physical Review C	064307	92 (2015)
2	Exploring the Origin of Nearly Degenerate Doublet Bands in ^{106}Ag	N. Rather, P. Datta, S. Chattopadhyay, S. Rajbanshi, A. Gowsami, G. H. Bhat, J. A. Sheikh, S. Roy, R. Palit, S. Pal, S. Saha, J. Sethi, S. Biswas, P. Singh, and H. C. Jain	Physical Review Letter	202503	112, (2014)
3	Antimagnetic rotation in ^{104}Pd	N. Rather, S. Roy, P. Datta, S. Chattopadhyay, A. Gowsami, S. Nag, R. Palit, S. Pal, S. Saha, J. Sethi, T. Trivedi and H. C. Jain	Physical Review C	061303	89 (2014) (R)
4	Shape evolution in ^{123}Cs and ^{124}Ba nuclei	K. Selvakumar, A. K. Singh, Subhashri Das, Purnima Singh, Somnath Nag, A. Goswami, R. Raut, A. Mukherjee, U. Datta Pramanik, P. Dutta, S. Roy, G. Gangopadhyay, S. Bhowal, S. Muralithar, R. Kumar, R. P. Singh, M. Kumar Raju, Thomas Reddy	Physical Review C	024313	88 (2013)
5	Structure of nearly degenerate dipole bands in ^{108}Ag	J. Sethi, R. Palit, S. Saha, T. Trivedi, G. H. Bhat, J. A. Sheikh, P. Datta, J. J. Carroll, S. Chattopadhyay, R. Dhonti, U. Garg, S. Jadhav, H.C. Jain, S. Kraamian, S. Kumar, M. S. Litz, D. Mehta, B. S. Naidu, Z. Naik, S.Sihotra, P. M. Walker	Physics Letter B	85-91	725 (2013)
6	Emergence of principal axis rotation in ^{110}Ag	Santosh Roy, N. Rather, Pradip Datta, S. Chattopadhyay, R.A. Bark, S. Pal, S. Bhattacharya, R.K. Bhowmik, A. Goswami, H.C. Jain, R. Kumar, E. Lawrie, S. Muralithar, D. Negi, R. Palit, R.P. Singh	Physics Letter B	587-593	710 (2012)
7	The first candidate for chiral nuclei in the $A \sim 80$ mass region: ^{80}Br	S.Y. Wang, B. Qi, L. Liu, S.Q. Zhang, H. Hua, X.Q. Li, Y.Y. Chen, L.H. Zhu, J. Meng, S.M. Wyngaardt, P. Papka, T.T. Ibrahim, R.A. Bark, P. Datta, E.A. Lawrie, J.J. Lawrie, S.N.T. Majola, P.L. Masiteng, S.M. Mullins, J. Gál, G. Kalinka, J. Molnár, B.M. Nyakó, J. Timár, K. Juhász, R. Schwengner	Physics Letter B	40-45	703 (2011)
8	Systematics of anti-magnetic rotation in even-even Cd isotopes	Santosh Roy, S. Chattopadhyay, Pradip Datta, S. Pal, S. Bhattacharya, R. K. Bhowmik, A. Goswami, H. C. Jain, R. Kumar, S. Muralithar, D. Negi, R. Palit, R. P. Singh	Physics Letter B	322-326	694 (2011)

9	Electric dipole moments in $^{230,232}\text{U}$ and implications for tetrahedral shapes	S. S. Ntshangase, R. A. Bark, D. G. Aschman, S. Bvumbi, P. Datta, P. M. Davidson, T. S. Dinoko, M. E. A. Elbasher, K. Juhasz, E. M. A. Khaleel, A. Krasznahorkay, E. A. Lawrie, J. J. Lawrie, R. M. Leider, S. N. T. Majola, P. L. Masiteng, H. Mohammed, S. M. Mullins, P. Nieminen, B. M. Nyako, P. Papka, D. G. Roux, J. F. Sharpey-Shafer, O. Shirinda, M. A. Stankiewicz, J. Timer and A. N. Wilson	Physical Review C	041305	82 (2010) (R)
10	Band crossing in a shears band of ^{108}Cd	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	Physical Review C	054311	81 (2010)
11	Fine structure dips in the fission fragment mass distribution for the $^{238}\text{U}(^{18}\text{O},f)$ reaction,	L. S. Danu, D. C. Biswas, A. Saxena, A. Shrivastava, A. Chatterjee, B. K. Nayak, R. G. Thomas, R. K. Choudhury, R. Palit, I. Mazumdar, P. Datta, S. Chattopadhyay, S. Pal, S. Bhattacharya, S. Muralithar, K. S. Golda, R. K. Bhowmik, J. J. Das, R. P. Singh, N. Madhavan, J. Gerl, S. K. Patra, and L. Satpathy	Physical Review C	014311	81 (2010)
12	Abrupt change of rotation axis in ^{109}Ag	P.Datta, S. Roy, S. Pal, S. Chattopadhyay, S. Bhattacharya, A. Goswami, M. Saha. Sarkar, J. A. Sheikh, Y. Sun, P. V. Madhusudhana Rao, R. K. Bhowmik, R. Kumar, N. Madhavan, S. Muralithar, R. P. Singh, H. C. Jain, P. K. Joshi, Amita	Physical Review C	021306	78 (2008) (R)
13	High spin structure of ^{35}Cl and the <i>sd-fp</i> shell gap	Ritesh Kshetri, M. Saha Sarkar, Indrani Ray, P. Banerjee, S. Sarkar, Rajarshi Raut, A. Goswami, J.M. Chatterjee, S. Chattopadhyay, U. Datta Pramanik, A. Mukherjee, C.C. Dey, S. Bhattacharya, B. Dasmahapatra, Samit Bhowal, G. Gangopadhyay, P. Datta, H.C. Jain, R.K. Bhowmik, S. Muralithar, R.P. Singh, R. Kumar	Nuclear Physics A	277-295	781 (2007)
14	Indication of the onset of collectivity in ^{30}P	Indrani Ray, Moumita Roy Basu, Ritesh Kshetri, Maitreyee Saha Sarkar, S. Sarkar, P. Banerjee, S. Chattopadhyay, C.C. Dey, A. Goswami, J.M. Chatterjee, A. Mukherjee, S. Bhattacharya, B. Dasmahapatra, P. Datta, H.C. Jain, R.K. Bhowmik, S. Muralithar, R.P. Singh	Physical Review C	034315	76 (2007)

15	Observation of Antimagnetic rotation in ^{108}Cd	P. Datta, S. Chattopadhyay, S. Bhattacharya, T. K. Ghosh, A. Goswami, S. Pal, M. Saha. Sarkar, H. C. Jain, P. K. Joshi, R. K. Bhowmik, R. Kumar, N. Madhavan, S. Muralithar, P. V. Madhusudhana Rao, R. P. Singh	Physical Review C	041305	71 (2005) (R)
16	Observation of magnetic rotation in odd-odd ^{104}Ag	P. Datta, S. Chattopadhyay, P. Banerjee, S. Bhattacharya, B. Dasmahapatra, T. K. Ghosh, A. Goswami, S. Pal, M. Saha. Sarkar, S. Sen, H. C. Jain, P. K. Joshi, Amita	Physical Review C	044317	69 (2004)
17	Possible coexistence of principal and tilted axis cranking in ^{103}Ag	P. Datta, S. Chattopadhyay, P. Banerjee, S. Bhattacharya, J. Chatterjee, B. Dasmahapatra, C. C. Dey, T. K. Ghosh, A. Goswami, S. Pal, I. Ray, M. Saha. Sarkar, S. Sen, H. C. Jain, P. K. Joshi, Amita	Physical Review C	014325	67 (2003)
18	Characteristics of a Compton suppressed Clover detector up to 5MeV	Saha Sarkar M., Datta P., Ray I., Dey C.C., Chattopadhyay S., Goswami A., Banerjee P., Singh R.P., Joshi P.K., Paul S.D., Bhattacharya S., Bhowmik R., Chatterjee J.M., Jain H.C., Sen S., Dasmahapatra B.	Nuclear Instrum. and Methods Phys. Res.	113	491 (20)

Paper Publication in National / International Conference(s)

Sl.No	Title of the paper	Name of Co -Authors	Name of Journal	Page(s)	Volume & Year
1	Interplay between tilted and principal axis rotation	Pradip Datta, Santosh Roy, and S. Chattopadhyay	AIP Conference Proceedings	1609	103 (2014)
2	Co-existence of AMR and collective rotation in ^{105}Pd	Niyaz Rather, P. Datta, S. Chattopadhyay, A. Gowswami, S. Nag, Santosh Roy 4 , R. Palit 4 , S. Saha 4 , J. Sethi 4 , and T. Trivedi 4	Proc. of the DAE Symposium on Nuclear Physics	108	59 (2014)
3	Search for Anti-magnetic rotations in ^{104}Pd	Niyaz Rather, P. Datta, Santosh Roy, S. Chattopadhyay, A. Gowswami, S. Nag, R. Palit, S. Saha, J. Sethi, and T. Trivedi	Proc. of the DAE Symposium on Nuclear Physics	122	58 (2013)
4	High Spin spectroscopy of ^{105}Pd	Niyaz Rather, P. Datta, Santosh Roy, S. Chattopadhyay, A. Gowswami, S. Nag, R. Palit, S. Saha, J. Sethi, and T. Trivedi	Proc. of the DAE Symposium on Nuclear Physics	124	58 (2013)
5	Structure of positive parity bands in odd-odd ^{108}Ag	J. Sethi, R. Palit, S. Saha, S. Kumar, S. Biswas, D. Choudhury, P. Singh, H.C. Jain, R.P. Singh, Rojeeta, T. Trivedi, S. Mukhopadhyay, D.C. Biswas, L.S. Danu, P. Datta, S. Chattopadhyay, and U. Garg	Proc. of the DAE Symposium on Nuclear Physics	240	58 (2013)

6	Structure of ^{108}Ag at Low and Medium Spin	J. Sethi, R. Palit, S. Saha, T. Trivedi, G. Bhat, P. Datta, J.J. Carroll, S. Chattopadhyay, R. Donthi, S. Jadhav, H.C. Jain, S. Karamian, S. Kumar, M. S. Litz, D. Mehta, B.S. Naidu, Z. Naik, J. Sheikh, S. Sihotra, and P.M. Walker	Proc. of the DAE Symposium on Nuclear Physics	288	57 (2012)
7	Observation of Staircase band in odd-odd Ag isotopes: ^{107}Ag a case study	P. Datta, N. Rather, S. Roy, S. Pal, S. Chattopadhyay, A. Goswami, S. Bhattacharya, R. K. Bhowmik, R. Kumar, S. Muralithar, R. P. Singh, R. Palit, H. C. Jain	Proc. of the DAE Symposium on Nuclear Physics	312	57 (2012)
8	High spin spectroscopy of ^{105}Pd	N. Rather, P. Datta, S. Roy, S. Pal, S. Chattopadhyay, A. Goswami, S. Bhattacharya, R. K. Bhowmik, R. Kumar, S. Muralithar, R. P. Singh, R. Palit, H. C. Jain	Proc. of the DAE Symposium on Nuclear Physics	310	57 (2012)
9	Investigation of Shape Coexistence in Mass 125 Region	K. Selvakumar, Subhashri Das, A. K. Singh, Purnima Singh, A. Gowsami, R. Raut, M. Kumar Raju, A. Mukherjee, U. Datta Praminik, P. Dutta, S. Roy, G. Gangopadhyay, S. Bhowal, S. Muralitha, Rakesh Kumar, R. P. Singh, Thomas Reddy	Proc. of the DAE Symposium on Nuclear Physics	8	55 (2010)
10	Systematic of antimagnetic rotation in even-even Cd isotopes	Santosh Roy, S. Chattopadhyay, Pradip Datta, S. Pal, S. Bhattacharya, R. K. Bhowmik, A. Goswami, H. C. Jain, R. Kumar, S. Muralithar, D. Negi, R. Palit, R. P. Singh	Proc. of the DAE Symposium on Nuclear Physics	50	55 (2010)
11	Lifetime measurements in ^{123}Cs	K. Selvakumar, Subhashri Das, A. K. Singh, Purnima Singh, A. Gowsami, R. Raut, A. Mukherjee, U. Datta Praminik, P. Dutta, S. Roy, G. Gangopadhyay, S. Bhowal, S. Muralithar, Rakesh Kumar, R. P. Singh, M. Kumar Raju, Thomas Reddy	Proc. of the international Symposium on Nuclear Physics	74	(2009)
12	Observation of triaxial deformation in ^{110}Ag isotope	S. Roy, P. Datta, S. Pal, S. Chattopadhyay, A. Goswami, S. Bhattacharya, R. K. Bhowmik, R. Kumar, S. Muralithar, R. P. Singh, R. Palit, H. C. Jain, R. Bark	Proc. of the international symposium on Nuclear Physics	132	(2009)
13	Systematics of Antimagnetic Rotation in Cd isotopes	P. Datta, S. Roy, S. Chattopadhyay	Proc. of the international Symposium on Nuclear Physics	134	(2009)

14	Fission fragments mass distribution measurements produced in $^{238}\text{U}(^{18}\text{O},f)$ system from gamma-spectroscopy studies	L.S. Danu, D.C Biswas, A. Saxena, A. Srivastava, A. Chatterjee, B. K. Nayak, R. G. Thomas, R. K. Choudhury, R. Palit, I. Mazumder, P. Datta, S. Chattopadhyay, S. Pal, S. Bhattacharya, S. Muralithar, K. S. Golda, R. K. Bhowmik, J. J. Das, R. Kumar, R. P. Singh, N. Madhavan, J. Gerl, S. K. Patra, L. Satpathy	Proc. of the international Symposium on Nuclear Physics	346	(2009)
15	Mechanism of angular momentum generation in Ag and Cd isotopes	P. Datta, S. Roy, S. Pal S. Chattopadhyay	Proc. of DAE Symposium on Nuclear Physics	199	53 (2008)
16	Interplay of Principal and Tilted axis rotation in odd-odd Ag isotopes	S. Roy, P. Datta, S. Pal, S. Chattopadhyay, A. Goswami, S. Bhattacharya, D. Negi, R. K. Bhowmik, R. Kumar, S. Muralithar, R. P. Singh, R. Palit, H. C. Jain	Proc. of DAE Symposium on Nuclear Physics	233	53 (2008)
17	Search for Anti-magnetic rotation in ^{110}Cd	S. Roy, P. Datta, S. Pal, S. Chattopadhyay, A. Goswami, S. Bhattacharya, D. Negi, R. K. Bhowmik, R. Kumar, S. Muralithar, R. P. Singh, R. Palit, H. C. Jain	Proc. of DAE Symposium on Nuclear Physics	339	53 (2008)
18	Spectroscopy of fission fragments produced in $^{18}\text{O} + ^{238}\text{U}$ reaction	L.S. Danu, D.C Biswas, A. Saxena, A. Srivastava, A. Chatterjee, R. K. Choudhury, R. Palit, I. Mazumder, P. Datta, S. Chattopadhyay, S. Pal, S. Bhattacharya, S. Muralithar, R. K. Bhowmik, J. J. Das, R. Kumar, R. P. Singh, N. Madhavan, L. Satpathy and S. K. Patra	Proc. of DAE Symposium on Nuclear Physics	225	53 (2008)
19	M(1) Doublet and Triplet bands in ^{109}Ag	S. Roy, P. Datta, S. Chattopadhyay, S. Bhattacharya, S. Pal, A. Goswami, H. C. Jain, P. K. Joshi, R. K. Bhowmik, R. Kumar, N. Madhavan, S. Muralithar, P. V. Madhusudhana Rao, R. P. Singh	Proc. of DAE Symposium on Nuclear Physics	236	52 (2007)
20	Prediction of Magnetic bands in ^{108}Ag through Lifetime measurements	S. Roy, P. Datta, S. Chattopadhyay, S. Bhattacharya, T. K. Ghosh, S. Pal, H. C. Jain, P. K. Joshi, R. K. Bhowmik, R. Kumar, N. Madhavan, S. Muralithar, P. V. Madhusudhana Rao, R. P. Singh	Proc. of DAE Symposium on Nuclear Physics	249	50 (2005)

21	Study of high-spin states in ^{30}P using heavy-ion reaction	I. Ray, M. Roy Basu, G Dey, R. Kshetri, P. Banerjee, R. Raut, A. Goswami, J. M. Chatterjee S. Chattopadhyay, U. Datta Pramanik, A. Mukherjee, C. C. Dey, S. Bhowal, S. Sarkar, G. Ganguly, K. S. Golda, R. Kumar, R. P. Singh, S. Muralithar, P. V. Madhusudana Rao N. Madhavan, J. J. Das, S. Nath, P. Sugathan, A. Jhingan, P. Datta, P. K. Joshi, H. C. Jain R. K. Bhowmik, S. Bhattacharya, B. Dasmahapatra, M. Saha Sarkar.	Proc. of DAE Symposium on Nuclear Physics	233	50 (2005)
22	Lifetime measurements in ^{35}Cl	R. Kshetri, I. Ray. S. Sarkar, P. Banerjee, R. Raut, A. Goswami, J. M. Chatterjee S. Chattopadhyay, U. Datta Pramanik, A. Mukherjee, C. C. Dey, S. Bhowal, G. Ganguly, K. S. Golda, R. Kumar, R. P. Singh, S. Muralithar, P. V. Madhusudana Rao, N. Madhavan, J. J. Das, S. Nath, P. Sugathan, A. Jhingan, P. Datta, P. K. Joshi, H. C. Jain, R. K. Bhowmik, S. Bhattacharya, B. Dasmahapatra, M. Saha Sarkar.	Proc. of DAE Symposium on Nuclear Physics	235	50 (2005)
23	Pattern of side feeding intensity in mass 40 region	R. Kshetri, I. Ray. S. Sarkar, P. Banerjee, R. Raut, A. Goswami, J. M. Chatterjee, S. Chattopadhyay, U. Datta Pramanik, A. Mukherjee, C. C. Dey, S. Bhowal, G. Ganguly, K. S. Golda, R. Kumar, R. P. Singh, S. Muralithar, P. V. Madhusudana Rao, N. Madhavan, J. J. Das, S. Nath, P. Sugathan, A. Jhingan, P. Datta, P. K. Joshi, H. C. Jain, R. K. Bhowmik, S. Bhattacharya, B. Dasmahapatra, M. Saha Sarkar.	Proc. of DAE Symposium on Nuclear Physics	237	50 (2005)
24	Production of Cathode Pad Chambers for 2 nd Muon Tracking Station of ALICE	M. Danish Azmi, S. Bose, S. Chattopadhyay, D. Das, I. Das, P. Datta, A.K. Dutt-Mazumder, M. Irfan, S. Jana, I.A. Khan, S. Pal, L. Paul, P. Roy, T. Sinha and B.C. Sinha.	Proc. of DAE Symposium on Nuclear Physics	437	50 (2005)
25	Abrupt change from principal to tilted axis rotation in ^{109}Ag	P. Datta, S. Chattopadhyay, S. Bhattacharya, T. K. Ghosh, A. Goswami, S. Pal, M. Saha. Sarkar, H. C. Jain, P. K. Joshi, R. K. Bhowmik, R. Kumar, N. Madhavan, S. Muralithar, P. V. Madhusudhana Rao, R. P. Singh	Proc. of DAE Symposium on Nuclear Physics	48	49B (2004)

26	Observation of sharp decrease in B(E2) values in ^{108}Cd : antimagnetic rotation or shape evolution?	P. Datta, S. Chattopadhyay, S. Bhattacharya, T. K. Ghosh, A. Goswami, S. Pal, M. Saha. Sarkar, H. C. Jain, P. K. Joshi, R. K. Bhowmik, R. Kumar, N. Madhavan, S. Muralithar, P. V. Madhusudhana Rao, R. P. Singh	Proc. of DAE Symposium on Nuclear Physics	50	49B (2004)
27	High spin structure of ^{109}Ag	P. Datta, S. Chattopadhyay, S. Bhattacharya, T. K. Ghosh, A. Goswami, S. Pal, M. Saha. Sarkar, H. C. Jain, P. K. Joshi, R. K. Bhowmik, R. Kumar, N. Madhavan, S. Muralithar, P. V. Madhusudhana Rao, R. P. Singh	Proc. of DAE Symposium on Nuclear Physics	118	48B (2003)
28	High Spin Structure of ^{103}Ag	P. Datta, S. Chattopadhyay, P. Banerjee, S. Bhattacharya, J. Chatterjee, B. Dasmahapatra, C. C. Dey, T. K. Ghosh, A. Goswami, S. Pal, I. Ray, M. Saha. Sarkar, S. Sen.	Proc. of DAE Symposium on Nuclear Physics	40	46B (2001)
29	Spectroscopy in A=40 region, Study of ^{38}Ar	M. Saha. Sarkar, P. Datta, S. Chattopadhyay, P. Banerjee, S. Bhattacharya, J. Chatterjee, C. C. Dey, A. Goswami, I. Ray, S. Sen, B. Dasmahapatra	Proc. of DAE Symposium on Nuclear Physics	112	46B (2001)
30	Characteristic of a Compton Suppressed Clover Detector upto 5 MeV	M. Saha-Sarkar, P. Datta, I. Ray, C. C. Dey, S. Chattopadhyay, A. Goswami, P. Banerjee, J.M. Chatterjee, S. Sen and B. Dasmahapatra	Proc. of DAE Symposium on Nuclear Physics	460	46B (2001)

List of presentation as invited speaker

Sl.No	Title of the paper	Details of the conference	Year
1	From Chirality to nearly degenerate bands: Context of ^{106}Ag	DAE Symposium on Nuclear Physics at Banaras Hindu University	December 8 - 12, 2014
2	Effect of deformation on Shears structure in mass-100 region	National conference on INGA user workshop under DST Indian National Gamma Array Project at TIFR, Mumbai	March 9 - 11, 2013
3	Spectroscopy of neutron deficient ^{184}Pb	Workshop on "Experimental proposals for HYRA-INGA campaign at IUAC" New Delhi	September 18-19, 2012
4	Interplay between tilted and principal axis rotation	Frontiers in Gamma ray spectroscopy (FIG12) international Symposium held at IUAC, New Delhi	March 5 - 7, 2012
5	Probing nuclei beyond Actinides using Alpha beam	Experimental proposals and Possibilities for Nuclear Studies at VECC	May 22-23, 2012

6	Mechanism of momentum generation in Ag and Cd isotopes	DAE Symposium on Nuclear Physics at IIT-Roorke, Uttarakhand, India	December 2008
7	Simulation Studies of TIGRESS type Clover detector at iThemba LABS	Physics forum, iThemba LABS, South Africa	December 2009

Internal Reports:

Sl. No.	Title with page no.	Book title, editor & publisher
1	Gamma—ray tracking code for reconstruction of the trajectory of a gamma ray inside a segmented TIGRESS detector	iThemba LABS Annual Report 2010/11
2	Developing a chi-squared minimization procedure for pulse shape analysis and gamma ray tracking	iThemba LABS Annual Report 2010/11
3	Position sensitivity in an AFRODITE clover detector	iThemba LABS Annual Report 2010/11