Last update – 20/09/2016

CV- Dr. B.R. Behera

a. Name of the Faculty Member : Dr. Bivash Ranjan Behera.

b. Designation : Professor of Physics

c. Date of Joining Panjab University: 14 – 12 – 2004.

d. Contact details including e-mail, phone. E-Mail: bivash@pu.ac.in, Phone: 0172-2534460

e. Area of Specialization : Accelerator based experimental Nuclear Physics, detectors development for Nuclear Physics, application of particle accelerators.

f. Award/ Honours/ Fellowship etc. : 1. INFN- Fellowship for Postdoctoral Research, 2. DAE Young Scientist Research Award (DAEYSRA), 3. Certificate *of* appreciation from Inter-university accelerator centre (IUAC) for the excellent research work in the field of Nuclear Physics using the ion beam and associated facilities of the Centre 4. Selected for the Special Invited Seminar at IUAC.

g. Number of Ph.D. guided: 03 ; Number of Ph.D. Scholars currently working: 06

Number of M.Phil guided: 02; Number of M.Sc. dissertation supervised : 12

h. Number of Research Project Completed: 03 ; Number of Current Research Project: 03

i. Number of Major Conference/Workshop organized - 04 : Besides this I have been involved with the organizing committee of the several national and departmental conferences/workshop and meetings.

j. Highlight of Research work : My research group is engaged in the experimental nuclear physics using the National and International accelerator facilities. We do experiment in Fusion-fission, Quasi-elastic barrier distribution, heavy-ion induced fusion, light charged particle spectra from the compound nucleus using various multi-detector array and recoil mass separators. We are also engaged in detector fabrications for Low energy nuclear physics experiments. My detail list of publications can be found below.

k. Detail List of Publications in refereed Journals

01. Phys. Rev. C 94, 034613 (2016)

Effect of coupling in the $^{28}Si+^{154}Sm$ reaction studied by quasi-elastic scattering

Gurpreet Kaur, B. R. Behera, A. Jhingan, B. K. Nayak, R. Dubey, Priya Sharma, Meenu Thakur, Ruchi Mahajan, N. Saneesh, Tathagata Banerjee, Khushboo, A. Kumar, S. Mandal, A. Saxena, P. Sugathan, and N. Rowley

02. Phys.Rev. C 93, 044318 (2016)

R.Chapman, Z.M.Wang, M.Bouhelal, F.Haas, X.Liang, F.Azaiez, B.R.Behera, M.Burns, E.Caurier, L.Corradi, D.Curien, A.N.Deacon, Zs.Dombradi, E.Farnea, E.Fioretto, A.Gadea, A.Hodsdon, F.Ibrahim, A.Jungclaus, K.Keyes, V.Kumar, S.Lunardi, N.Marginean, G.Montagnoli, D.R.Napoli, F.Nowacki, J.Ollier, D.O'Donnell, A.Papenberg, G.Pollarolo, M.-D.Salsac, F.Scarlassara, G.Simpson, J.F.Smith, K.M.Spohr, M.Stanoiu, A.M.Stefanini, S.Szilner, M.Trotta, D.Verney

Particle-core coupling in ^{37}S

03. Phys.Rev. C 94, 024325 (2016)

R.Chapman, Z.M.Wang, M.Bouhelal, F.Haas, X.Liang, F.Azaiez, B.R.Behera, M.Burns, E.Caurier, L.Corradi, D.Curien, A.N.Deacon, Zs.Dombradi, E.Farnea, E.Fioretto, A.Gadea, A.Hodsdon, F.Ibrahim, A.Jungclaus, K.Keyes, V.Kumar, S.Lunardi, N.Marginean, G.Montagnoli, D.R.Napoli, F.Nowacki, J.Ollier, D.O'Donnell, A.Papenberg, G.Pollarolo, M.-D.Salsac, F.Scarlassara, J.F.Smith, K.M.Spohr, M.Stanoiu, A.M.Stefanini, S.Szilner, M.Trotta, D.Verney

First in-beam γ-ray study of the level structure of neutron-rich ^{39}S

04. Acta Phys.Pol. B47, 847 (2016)

G.Kaur, B.R.Behera, A.Jhingan, B.K.Nayak, R.Dubey, P.Sharma, M.Thakur, R.Mahajan, N.Saneesh, T.Banerjee, Khushboo, A.Kumar, S.Mandal, A.Saxena, P.Sugathan, N.Rowley

Measurement of Quasi-elastic Scattering: to Probe ^{28}Si+^{154}Sm Reaction

05. Pramana 85, 323 (2015)

B.R. Behera

An overview of the recent results on fission dynamics from the NAND facility

06. Phys.Rev. C 92, 041601 (2015)

A.Chaudhuri, T.K.Ghosh, K.Banerjee, S.Bhattacharya, J.Sadhukhan, S.Kundu, C. Bhattacharya, J.K.Meena, G.Mukherjee, A.K.Saha, Md.A.Asgar, A.Dey,S.Manna, R.Pandey, T.K.Rana, P.Roy, T.Roy, V.Srivastava, P.Bhattacharya, D.C.Biswas, B. N.Joshi, K.Mahata, A.Shrivastava, R.P.Vind, S.Pal, B.R.Behera,V.Singh

No influence of a N=126 neutron-shell closure in fission-fragment mass distributions

07. Phys.Rev. C 92, 044609 (2015)

G.Kaur, B.R.Behera, A.Jhingan, P.Sugathan, K.Hagino

Influence of vibrational excitation on surface diffuseness of the internuclear potential: Study through heavy-ion quasielastic scattering at deep sub-barrier energies

08. Phys.Rev. C 92, 044308 (2015)

R.Chapman, A.Hodsdon, M.Bouhelal, F.Haas, X.Liang, F.Azaiez, Z.M.Wang, B.R .Behera, M.Burns, E.Caurier, L.Corradi, D.Curien, A.N.Deacon, Zs.Dombradi,E.F arnea, E.Fioretto, A.Gadea, F.Ibrahim, A.Jungclaus, K.Keyes, V.Kumar, S.Lunardi , N.Marginean, G.Montagnoli, D.R.Napoli, F.Nowacki, J.Ollier, D.O'Donnell,A.Pa penberg, G.Pollarolo, M.D.Salsac, F.Scarlassara, J.F.Smith, K.M.Spohr, M.Stanoiu , A.M.Stefanini, S.Szilner, M.Trotta, D.Verney

Spectroscopy of neutron-rich $^{34, 35, 36, 37, 38}$P populated in binary grazing reactions

09. Phys.Rev. C 92, 034614 (2015)

H.S.Hans, A.Kumar, S.Verma, G.Singh, B.R.Behera, K.P.Singh, S.Ghosh

Particle-hole configurations in reaction mechanisms for single-particle level densities for target nuclei in (n, p) reactions at 14.8 MeV energy

10. Phys.Rev. C 91, 044621 (2015)

R.Sandal, B.R.Behera, V.Singh, M.Kaur, A.Kumar, G.Kaur, P.Sharma, N.Madhab an, S.Nath, J.Gehlot, A.Jhingan, K.S.Golda, H.Singh, S.Mandal, S.Verma,E.Prasad , K.M.Varier, A.M.Vinodkumar, A.Saxena, J.Sadhukhan, S.Pal

Probing nuclear dissipation via evaporation residue excitation functions for the $^{16,18}O+^{198}Pt$ reactions

02. Eur.Phys.J. A 51, 54 (2015)

K.P.Singh, M.Oswal, B.R.Behera, A.Kumar, G.Singh

Study of lifetimes of low-lying levels in ^{53}Mn

03.Phys.Rev. C 89, 034621 (2014)

M.Kaur, B.R.Behera, G.Singh, V.Singh, R.Sandal, A.Kumar, H.Singh, G.Singh, K. P.Singh, N.Madhavan, S.Nath, A.Jhingan, J.Gehlot, K.S.Golda, P.Sugathan,D.Siw al, S.Kalkal, E.Prasad, S.Appannababu

Anomalous deviations from statistical evaporation spectra for the decay of the ^{73}Br and ^{77}Rb compound systems

04. Eur.Phys.J. A 50, 5 (2014)

N.Kaur, A.Kumar, G.Mukherjee, A.Singh, S.Kumar, R.Kaur, V.Singh, B.R.Behera , K.P.Singh, G.Singh, H.P.Sharma, S.Kumar, M.K.Raju, P.V.M.Rao,S.Muralithar, R.P.Singh, R.Kumar, N.Madhvan, R.K.Bhowmik

High spin structure in $^{130, 131}Ba$

05. Phys.Rev. C 89, 024609 (2014)

V.Singh, B.R.Behera, M.Kaur, A.Kumar, K.P.Singh, N.Madhavan, S.Nath, J.Gehl ot, G.Mohanto, A.Jhingan, IshMukul, T.Varughese, J.Sadhukhan, S.Pal,S.Goyal, A .Saxena, S.Santra, S.Kailas

Measurement of evaporation residue excitation functions for the $^{19}F + ^{194, 196, 198}Pt$ reactions

06. Nucl.Phys. A913, 157 (2013)

K.S.Golda, A.Saxena, V.K.Mittal, K.Mahata, P.Sugathan, A.Jhingan, V.Singh, R.S andal, S.Goyal, J.Gehlot, A.Dhal, B.R.Behera, R.K.Bhowmik, S.Kailas

Determination of shell correction energies at saddle point using pre-scission neutron multiplicities

07. Phys.Rev. C 87, 014604 (2013); Erratum Phys.Rev. C 87, 069901 (2013)

R.Sandal, B.R.Behera, V.Singh, M.Kaur, A.Kumar, G.Singh, K.P.Singh, P.Sugath an, A.Jhingan, K.S.Golda, M.B.Chatterjee, R.K.Bhowmik, S.Kalkal, D.Siwal,S.Go yal, S.Mandal, E.Prasad, K.Mahata, A.Saxena, J.Sadhukhan, S.Pal

Effect of N/Z in pre-scission neutron multiplicity for $^{16, 18}O + ^{194, 198}Pt$ systems

08. Phys.Rev. C 87, 064601 (2013)

V.Singh, B.R.Behera, M.Kaur, A.Kumar, P.Sugathan, K.S.Golda, A.Jhingan, M.B. Chatterjee, R.K.Bhowmik, D.Siwal, S.Goyal, J.Sadhukhan, S.Pal, A.Saxena,S.Sant ra, S.Kailas

Neutron multiplicity measurements for $^{19}F+^{194, 196, 198}Pt$ systems to investigate the effect of shell closure on nuclear dissipation

09. Phys.Rev. C 85, 054614 (2012)

H.S.Hans, G.Singh, A.Kumar, K.P.Singh, B.R.Behera, S.Ghosh

Theoretical interpretation of the systematics of effective single-particle level densities from (n, p) reactions at 14.8 MeV energy

10. Phys.Rev. C 86, 014609 (2012)

V.Singh, B.R.Behera, M.Kaur, P.Sugathan, K.S.Golda, A.Jhingan, J.Sadhukhan, D .Siwal, S.Goyal, S.Santra, A.Kumar, R.K.Bhowmik, M.B.Chatterjee,A.Saxena, S.P al, S.Kailas

Search for an effect of shell closure on nuclear dissipation via a neutron-multiplicity measurement

11. Phys.Rev. C 83, 054607 (2011)

S.Kalkal, S.Mandal, N.Madhavan, A.Jhingan, E.Prasad, R.Sandal, S.Nath, J.Gehlot , R.Garg, G.Mohanto, M.Saxena, S.Goyal, S.Verma, B.R.Behera, S.Kumar,U.D.Pr amanik, A.K.Sinha, R.Singh

Multinucleon transfer reactions for the $^{28}Si+^{90, 94}Zr$ systems in the region below and near the Coulomb barrier

12. Proc.5th International Conference of Fusion11: Saint-Malo, France, May 2-6, 2011, Ch.Schmitt, et al. Eds. p.16014 (2011);EPJ Web Conf.v.17 (2011)

V.Singh, B.R.Behera, M.Kaur, D.Siwal, S.Goyal, P.Sugathan, K.S.Golda, A.Jhing an, A.Kumar, A.Saxena, R.K.Bhowmik, S.Kailas

Study of the effect of shell closure on the nuclear dissipation

13. Phys.Rev. C 83, 061304 (2011)

Z.M.Wang, R.Chapman, F.Haas, X.Liang, F.Azaiez, B.R.Behera, M.Burns, L.Corr adi, D.Curien, A.N.Deacon, Zs.Dombradi, E.Farnea, E.Fioretto, A.Gadea,A.Hodsd on, F.Ibrahim, A.Jungclaus, K.Keyes, V.Kumar, A.Latina, N.Marginean, G.Monta gnoli, D.R.Napoli, J.Ollier, D.O'Donnell, A.Papenberg, G.Pollarolo, M.-D.Salsac, F.Scarlassara, J.F.Smith, K.M.Spohr, M.Stanoiu, A.M.Stefanini, S.Szilne r, M.Trotta, D.Verney

Collectivity in ^{41}S

14. Phys.Rev. C 81, 044610 (2010)

S.Kalkal, S.Mandal, N.Madhavan, E.Prasad, S.Verma, A.Jhingan, R.Sandal, S.Nat h, J.Gehlot, B.R.Behera, M.Saxena, S.Goyal, D.Siwal, R.Garg, U.D.Pramanik,S.K umar, T.Varughese, K.S.Golda, S.Muralithar, A.K.Sinha, R.Singh

Channel coupling effects on the fusion excitation functions for $^{28}Si+^{90, 94}Zr$ in sub- and near-barrier regions

15. Phys.Rev. C 81, 024318 (2010)

D.O'Donnell, R.Chapman, X.Liang, F.Azaiez, F.Haas, S.Beghini, B.R.Behera, M. Burns, E.Caurier, L.Corradi, D.Curien, A.N.Deacon, Z.S.Dombradi, E.Farnea,E.Fi oretto, A.Gadea, A.Hodsdon, F.Ibrahim, A.Jungclaus, K.Keyes, A.Latina, N.Margi

nean, G.Montagnoli, D.R.Napoli, F.Nowacki, J.Ollier, A.Papenberg,G.Pollarolo, M.D.Salsac, F.Scarlassara, J.F.Smith, K.M.Spohr, M.Stanoiu, A.M.Stefanini, S.Szi lner, M.Trotta, J.J.Valiente-Dobon, D.Verney, Z.M.Wang

γ-ray spectroscopy of $_{17}{}^{38}$Cl using grazing reactions

16. Nucl.Phys. A834, 208c (2010)

E.Prasad, K.M.Varier, B.R.S.Babu, N.Madhavan, K.S.Golda, S.Nath, B.P.A.Kuma r, J.J.Das, J.Gehlot, P.Sugathan, A.Jhingan, A.K.Sinha, B.R.Behera, R.Sandal,H.Si ngh, R.Singh, R.G.Thomas, S.Kailas

Study of fission fragment mass distribution for ^{16}O + ^{194}Pt reaction.

17. Phys.Rev. C 81, 054305 (2010)

Z.M.Wang, R.Chapman, X.Liang, F.Haas, F.Azaiez, B.R.Behera, M.Burns, E.Caur ier, L.Corradi, D.Curien, A.N.Deacon, Zs.Dombradi, E.Farnea, E.Fioretto,A.Gadea , A.Hodsdon, F.Ibrahim, A.Jungclaus, K.Keyes, V.Kumar, A.Latina, S.Lunardi, N. Marginean, G.Montagnoli, D.R.Napoli, F.Nowacki, J.Ollier,D.O'Donnell, A.Papen berg, G.Pollarolo, M.-
D.Salsac, F.Scarlassara, J.F.Smith, K.M.Spohr, M.Stanoiu, A.M.Stefanini, S.Szilne r, M.Trotta, D.Verney

γ-ray spectroscopy of neutron-rich ^{40}S

18. Phys.Rev. C 81, 064301 (2010)

Z.M.Wang, R.Chapman, X.Liang, F.Haas, M.Bouhelal, F.Azaiez, B.R.Behera, M. Burns, E.Caurier, L.Corradi, D.Curien, A.N.Deacon, Zs.Dombradi, E.Farnea,E.Fio retto, A.Gadea, A.Hodsdon, F.Ibrahim, A.Jungclaus, K.Keyes, V.Kumar, A.Latina, N.Marginean, G.Montagnoli, D.R.Napoli, F.Nowacki, J.Ollier,D.O'Donnell, A.Pa penberg, G.Pollarolo, M.D.Salsac, F.Scarlassara, J.F.Smith, K.M.Spohr, M.Stanoiu , A.M.Stefanini, S.Szilner, M.Trotta, D.Verney

Intruder negative-parity states of neutron-rich ^{33}Si

19. Int.J.Mod.Phys. E18, 1917 (2009)

S.Adhikari, C.Basu, B.R.Behera, S.Ray, A.K.Mitra, M.S.Kumar, A.Chatterjee

The study of α + ^{14}C cluster states of ^{18}O through the resonant breakup reaction ^{12}C(^{18}O, ^{14}Cα) at E(^{18}O) = 94.5 MeV

20. Phys.Rev. C 80, 064615 (2009)

H.Singh, B.R.Behera, G.Singh, I.M.Govil, K.S.Golda, A.Jhingan, R.P.Singh, P.Sugathan, M.B.Chatterjee, S.K.Datta, S.Pal, Ranjeet, S.Mandal, P.D.Shidling,G.Viesti

Measurement of neutron multiplicity from fission of ^{228}U and nuclear dissipation

21. Proc.4th.Intern.Conf.Fission and Properties of Neutron-Rich Nuclei, Sanibel Island, Florida (2007); J.H.Hamilton, A.V.Ramayya, H.K.Carter, Eds., p.273 (2008)

M.G.Itkis, S.Beghini, B.R.Behera, A.A.Bogatchev, L.Corradi, O.Dorvaux, E.Fioretto, A.Gadea, F.Hanappe, I.M.Itkis, J.Kliman, G.N.Knyazheva,N.A.Kondratiev, E.M.Kozulin, L.Krupa, A.Latina, G.Montagnoli, Yu.Ts.Oganessian, I.V.Pokrovsky, E.V.Prokhorova, N.Rowley, V.A.Rubchenya, A.Ya.Rusanov,R.N.Sagaidak, F.Scarlassara, A.M.Stefanini, L.Stuttge, S.Szilner, M.Trotta, W.H.Trzaska

The Reaction Mechanism in Heavy-Ion Collisions Leading to the Superheavy Compound Systems

22. Nucl.Phys. A801, 1 (2008)

M.D.Salsac, F.Haas, S.Courtin, A.Algora, C.Beck, S.Beghini, B.R.Behera, R.Chapman, L.Corradi, Z.Dombradi, E.Farnea, E.Fioretto, A.Gadea, D.G.Jenkins,A.Latina, D.Lebhertz, S.Lenzi, X.Liang, N.Marginean, G.Montagnoli, D.Napoli, P.Papka, I.Pokrovski, G.Pollarolo, M.Rousseau, E.Sahin, A.Sanchez i Zafra,F.Scarlassara, D.Sohler, A.M.Stefanini, S.Szilner, M.Trotta, C.Ur, F.Della Vedova, Z.M.Wang, K.T.Wiedemann

Decay of a narrow and high spin ^{24}Mg + ^{24}Mg resonance

23. Phys.Lett. B 670, 99 (2008)

P.D.Shidling, N.Madhavan, V.S.Ramamurthy, S.Nath, N.M.Badiger, S.Pal, A.K.Sinha, A.Jhingan, S.Muralithar, P.Sugathan, S.Kailas, B.R.Behera, R.Singh,K.M.Varier, M.C.Radhakrishna

Experimental signature of entrance channel effect in heavy mass region via evaporation residue cross section and spin distribution measurements

24. Phys.Rev. C 78, 024609 (2008)

H.Singh, K.S.Golda, S.Pal, Ranjeet, R.Sandal, B.R.Behera, G.Singh, A.Jhingan, R. P.Singh, P.Sugathan, M.B.Chatterjee, S.K.Datta, A.Kumar, G.Viesti,I.M.Govil

Role of nuclear dissipation and entrance channel mass asymmetry in pre-scission neutron multiplicity enhancement in fusion-fission reactions

25. Phys.Rev. C 76, 034609 (2007)

C.Basu, S.Adhikari, S.K.Ghosh, S.Roy, S.Ray, B.R.Behera, S.K.Datta

Reaction mechanisms in $^{16}O+^{40}Ca$ at an incident energy of $E(^{16}O)=86$ MeV through inclusive measurements of α and proton spectra

26. Phys.Rev. C 75, 064602 (2007)

G.N.Knyazheva, E.M.Kozulin, R.N.Sagaidak, A.Yu.Chizhov, M.G.Itkis, N.A.Kon dratiev, V.M.Voskressensky, A.M.Stefanini, B.R.Behera, L.Corradi, E.Fioretto,A. Gadea, A.Latina, S.Szilner, M.Trotta, S.Beghini, G.Montagnoli, F.Scarlassara, F.H aas, N.Rowley, P.R.S.Gomes, A.Szanto de Toledo

Quasifission processes in $^{40, 48}Ca+^{144, 154}Sm$ reactions

27. Proc.Intern.Symposium on Exotic Nuclei, Khanty-Mansiysk, Russia, 17-22 July, 2006, Yu.E.Penionzhkevich, E.A.Cherepanov, Eds. p.185 (2007); AIP Conf.Proc. 912 (2007)

G.N.Knyazheva, E.M.Kozulin, R.N.Sagaidak, M.G.Itkis, N.A.Kondratiev, A.M.St efanini, B.R.Behera, L.Corradi, E.Fioretto, A.Gadea, A.Latina, S.Szilner,M.Trotta, S.Beghini, G.Montagnoli, F.Scarlassara, F.Haas, N.Rowley, P.R.S.Gomes, A.Szant o de Toledo

$^{40, 48}Ca+^{144, 154}Sm$: Deformation and Shell

28. Phys.Rev. C 76, 044610 (2007); Erratum Phys.Rev. C 80, 019909 (2009)

H.Singh, A.Kumar, B.R.Behera, I.M.Govil, K.S.Golda, P.Kumar, A.Jhingan, R.P.S ingh, P.Sugathan, M.B.Chatterjee, S.K.Datta, Ranjeet, S.Pal, G.Viesti

Entrance channel effects in fission of ^{197}Tl

29. Phys.Rev. C 76, 014610 (2007)

A.M.Stefanini, B.R.Behera, S.Beghini, L.Corradi, E.Fioretto, A.Gadea, G.Montagn oli, N.Rowley, F.Scarlassara, S.Szilner, M.Trotta

Sub-barrier fusion of ^{40}Ca+^{94}Zr: Interplay of phonon and transfer couplings

30. Phys.Rev. C 76, 024604 (2007)

S.Szilner, C.A.Ur, L.Corradi, N.Marginean, G.Pollarolo, A.M.Stefanini, S.Beghini, B.R.Behera, E.Fioretto, A.Gadea, B.Guiot, A.Latina, P.Mason, G.Montagnoli,F.Sc arlassara, M.Trotta, G.de Angelis, F.Della
Vedova, E.Farnea, F.Haas, S.Lenzi, S.Lunardi, R.Marginean, R.Menegazzo, D.R. Napoli, M.Nespolo,I.V.Pokrovsky, F.Recchia, M.Romoli, M.-
D.Salsac, N.Soic, J.J.Valiente-Dobon

Multinucleon transfer reactions in closed-shell nuclei

31. arXiv:0707.0426v1 [nucl-ex] (2007)

S.Szilner, C.A.Ur, L.Corradi, N.Marginean, G.Pollarolo, A.M.Stefanini, S.Beghini, B.R.Behera, E.Fioretto, A.Gadea, B.Guiot, A.Latina, P.Mason, G.Montagnoli,F.Sc arlassara, M.Trotta, G.de Angelis, F.Della
Vedova, E.Farnea, F.Haas, S.Lenzi, S.Lunardi, R.Marginean, R.Menegazzo, D.R. Napoli, M.Nespolo,I.V.Pokrovsky, F.Recchia, M.Romoli, M.-
D.Salsac, N.Soic, J.J.Valiente-Dobon

Multinucleon transfer reactions in closed-shell nuclei

32. Nucl.Phys. A787, 134c (2007)

M.Trotta, A.M.Stefanini, S.Beghini, B.R.Behera, L.Corradi, E.Fioretto, A.Gadea, M.G.Itkis, G.N.Knyazheva, N.A.Kondratiev, E.M.Kozulin, N.Marginean,P.Mason, G.Montagnoli, I.V.Pokrovsky, R.N.Sagaidak, F.Scarlassara, R.Silvestri, S.Szilner

An overview of near-barrier fusion studies with stable beams

33. Proc.VI Latin American Symp, on Nuclear Physics and Applications, Iguazu, Argentina, 3-7 Oct. 2005, O.Civitarese, C.Dorso, G.Garcia Bermudez, A.J.Kreiner, A.J.Pacheco, N.N.Scoccola, Eds. p.195 (2007); AIP Conf.Proc. 884 (2007)

M.Trotta, G.N.Kniazheva, A.M.Stefanini, S.Beghini, B.R.Behera, A.Yu.Chizhov, L.Corradi, S.Courtin, E.Fioretto, A.Gadea, P.R.S.Gomes, F.Haas, I.M.Itkis,M.G.It kis, N.A.Kondratiev, E.M.Kozulin, A.Latina, G.Montagnoli, I.V.Pokrovsky, N.Ro wley, R.N.Sagaidak, F.Scarlassara, A.Szanto de
Toledo, S.Szilner,V.M.Voskressensky

Influence of entrance channel on fusion hindrance and quasi-fission

34. Proc.Frontiers in Nuclear Structure, Astrophysics, and Reactions, Isle of Kos, Greece, 12-17 Sept. 2005, S.V Harissopulos, P.Demetriou, R.Julin, Eds., p. 85 (2006); AIP Conf.Proc. 831 (2006)

A.Gadea, N.Marginean, E.Farnea, S.M.Lenzi, G.de
Angelis, D.R.Napoli, L.Corradi, A.M.Stefanini, E.Fioretto, S.Szilner, M.Axiotis, B .R.Behera, A.Latina,C.Rusu, W.Zhimin, J.Valiente-
Dobon, I.Pokrovsky, D.Bazzacco, S.Beghini, C.Ur, S.Lunardi, G.Montagnoli, R.M enegazzo, F.Scarlassara, F.Della
Vedova,A.Bracco, F.Camera, S.Leoni, B.Million, M.Pignanelli, G.Pollarolo, M.Tr otta, P.G.Bizzeti, A.M.Bizzeti-
Sona, G.Duchene, D.Curien, R.Chapman, X.Liang,F.Azaiez, M.Stanoiu, S.J.Freem an, B.J.Varley, V.Pucknell

Spectroscopy of Moderately Neutron-rich Nuclei with the CLARA-PRISMA Setup

35. Proc.Fusion06: Reaction Mechanisms and Nuclear Structure at the Coulomb Barrier, San Servolo, Venice, Italy, 19-23 March 2006, L.Corradi, et al. Eds. p. 231 (2006); AIP Conf.Proc. 853 (2006)

M.G.Itkis, S.Beghini, B.R.Behera, A.A.Bogachev, V.Bouchat, L.Corradi, O.Dorva ux, E.Fioretto, F.Hanappe, I.M.Itkis, M.Jandel, J.Kliman, G.N.Knyazheva,N.A.Ko ndratiev, E.M.Kozulin, L.Krupa, A.Latina, T.Materna, G.Montagnoli, Yu.Ts.Ogan essian, I.V.Pokrovsky, E.V.Prokhorova, N.Rowley, A.Ya.Rusanov,R.N.Sagaidak, F.Scarlassara, C.Schmitt, A.M.Stefanini, L.Stuttge, S.Szilner, M.Trotta

The Peculiarities of the Production and Decay of Superheavy Nuclei

36. Phys.Rev. C 74, 014311 (2006)

X.Liang, F.Azaiez, R.Chapman, F.Haas, D.Bazzacco, S.Beghini, B.R.Behera, L.Berti, M.Burns, E.Caurier, L.Corradi, D.Curien, A.Deacon, G.deAngelis,Zs.Dombradi, E.Farnea, E.Fioretto, A.Hodsdon, A.Gadea, F.Ibrahim, A.Jungclaus, K.Keyes, A.Latina, S.Lunardi, N.Marginean, R.Menegazzo, G.Montagnoli,D.R.Napoli, F.Nowacki, J.Ollier, A.Papenberg, G.Pollarolo, V.F.E.Pucknell, M.D.Salsac, F.Scarlassara, J.F.Smith, K.Spohr, M.Stanoiu, A.M.Stefanini,S.Szilner, N.Toniolo, M.Trotta, D.Verney, Z.Wang, J.Wrzesinski

Study of the neutron-rich nucleus ^{36}Si

37. Proc.Fusion06: Reaction Mechanisms and Nuclear Structure at the Coulomb Barrier, San Servolo, Venice, Italy, 19-23 March 2006, L.Corradi, et al. Eds. p. 37 (2006); AIP Conf.Proc. 853 (2006)

X.Liang, A.Hodsdon, F.Azaiez, R.Chapman, F.Haas, D.Bazzacco, S.Beghini, B.R.Behera, L.Berti, M.Burns, E.Caurier, L.Corradi, D.Curien, A.Deacon, G.de Angelis, Zs.Dombradi, E.Farnea, E.Fioretto, A.Gadea, F.Ibrahim, A.Jungclaus, K.Keyes, A.Latina, N.Marginean, R.Menegazzo, G.Montagnoli, D.R.Napoli,F.Nowacki, J.Ollier, A.Papenberg, G.Pollarolo, V.F.E.Pucknell, M.-D.Salsac, F.Scarlassara, J.F.Smith, K.Spohr, M.Stanoiu, A.M.Stefanini, S.Szilner, N.Toniolo, M.Trotta, D.Verney, Z.Wang, J.Wrzesinski

The Spectroscopy of Neutron-Rich sdf-Shell Nuclei Using the CLARA-PRISMA Setup

38. Phys.Lett. B 633, 696 (2006)

N.Marginean, S.M.Lenzi, A.Gadea, E.Farnea, S.J.Freeman, D.R.Napoli, D.Bazzacco, S.Beghini, B.R.Behera, P.G.Bizzeti, A.Bizzeti-Sona, D.Bucurescu,R.Chapman, L.Corradi, A.N.Deacon, G.de Angelis, F.Della Vedova, E.Fioretto, M.Ionescu-Bujor, A.Iordachescu, Th.Kroll, A.Latina, X.Liang, S.Lunardi,G.Montagnoli, R.Marginean, M.Nespolo, G.Pollarolo, C.Rusu, F.Scarlassara, J.F.Smith, K.Spohr, A.M.Stefanini, S.Szilner, M.Trotta, C.A.Ur, B.J.Varley,W.Zhimin

Shape transitions far from stability: The nucleus ^{58}Cr

39. Proc.Fusion06: Reaction Mechanisms and Nuclear Structure at the Coulomb Barrier, San Servolo, Venice, Italy, 19-23 March 2006, L.Corradi, et al. Eds. p. 165 (2006); AIP Conf.Proc. 853 (2006)

M.-D.Salsac, F.Haas, S.Courtin, C.Beck, M.Rousseau, A.Sanchez i Zafra, A.Algora, S.Beghini, B.R.Behera, R.Chapman, L.Corradi, Z.Dombradi, E.Farnea,E.Fioretto, A.Gadea, D.G.Jenkins, A.Latina, S.Lenzi, X.Liang, N.Marginean, G.Montagnoli, D.Napoli, P.Papka, I.Pokrovsky, G.Pollarolo, F.Scarlassara,A.M.Stefanini, S.Szilner, M.Trotta, Z.M.Wang

Nature and decay of a $J^{\pi} = 36^{+}$ resonance in the $^{24}Mg + ^{24}Mg$ reaction

40. Phys.Rev.C 74, 064603 (2006)

P.D.Shidling, N.M.Badiger, S.Nath, R.Kumar, A.Jhingan, R.P.Singh, P.Sugathan, S.Muralithar, N.Madhavan, A.K.Sinha, S.Pal, S.Kailas, S.Verma, K.Kalita,S.Mandal, R.Singh, B.R.Behera, K.M.Varier, M.C.Radhakrishna

Fission hindrance studies in ^{200}Pb: Evaporation residue cross section and spin distribution measurements

41. Phys.Rev. C 73, 034606 (2006)

A.M.Stefanini, F.Scarlassara, S.Beghini, G.Montagnoli, R.Silvestri, M.Trotta, B.R. Behera, L.Corradi, E.Fioretto, A.Gadea, Y.W.Wu, S.Szilner, H.Q.Zhang,Z.H.Liu, M.Ruan, F.Yang, N.Rowley

Fusion of $^{48}Ca + ^{90, 96}Zr$ above and below the Coulomb barrier

42. Proc.Fusion06: Reaction Mechanisms and Nuclear Structure at the Coulomb Barrier, San Servolo, Venice, Italy, 19-23 March 2006, L.Corradi, et al. Eds. p. 43 (2006); AIP Conf.Proc. 853 (2006)

C.A.Ur, L.Corradi, A.M.Stefanini, S.Szilner, S.Beghini, B.R.Behera, E.Farnea, E.Fioretto, A.Gadea, F.Haas, A.Latina, N.Marginean, G.Montagnoli,F.Scarlassara, G. Pollarolo

Nuclear spectroscopy study of the isotopes populated via multinucleon transfer in the $^{90}Zr + ^{208}Pb$ reaction

43. Eur.Phys.J. A 25, Supplement 1, 277 (2005)

C.Basu, S.Adhikari, P.Basu, B.R.Behera, S.Ray, S.K.Ghosh, S.K.Datta

Observation of pre-equilibrium alpha particles at extreme backward angles from $^{28}Si + ^{nat}Si$ and $^{28}Si + ^{27}Al$ reactions at E < 5 MeV/A

44. Int.J.Mod.Phys. E14, 1063 (2005)

C.Basu, S.Adhikari, S.K.Ghosh, P.Basu, S.Ray, B.R.Behera, S.K.Datta

Study of statistical emissions in $^{28}Si + ^{nat}Si$ and $^{28}Si + ^{27}Al$ reactions at 4-5 MeV/A incident energies

45. Phys.Rev. C 71, 014609 (2005)

L.Corradi, B.R.Behera, E.Fioretto, A.Gadea, A.Latina, A.M.Stefanini, S.Szilner, M .Trotta, Y.Wu, S.Beghini, G.Montagnoli, F.Scarlassara, R.N.Sagaidak,S.N.Atutov, B.Mai, G.Stancari, L.Tomassetti, E.Mariotti, A.Khanbekyan, S.Veronesi

Excitation functions for $^{208-211}Fr$ produced in the $^{18}O + ^{197}Au$ fusion reaction

46. Eur.Phys.J. A 25, Supplement 1, 427 (2005)

L.Corradi, A.M.Stefanini, S.Szilner, S.Beghini, B.R.Behera, E.Farnea, A.Gadea, E. Fioretto, F.Haas, A.Latina, N.Marginean, G.Montagnoli, G.Pollarolo,F.Scarlassara, M.Trotta, C.Ur, and the PRISMA-CLARA Collaboration

Multinucleon transfer reactions studied with the heavy-ion magnetic spectrometer PRISMA

47. J.Phys.(London) G31, S1443 (2005)

A.Gadea, N.Marginean, L.Corradi, S.M.Lenzi, C.A.Ur, E.Farnea, G.de Angelis, E.Fioretto, D.R.Napoli, A.M.Stefanini, S.Szilner, M.Axiotis, B.R.Behera, A.Latina, C.Rusu, W.Zhimin, D.Bazzacco, S.Beghini, S.Lunardi, G.Montagnoli, R .Menegazzo, F.Scarlassara, F.DellaVedova, M.Nespolo, A.Bracco, F.Camera,S.Le oni, B.Million, M.Pignanelli, G.Pollarolo, M.Trotta, P.G.Bizzeti, A.M.BizzetiSona, D.Curien, P.Medina, M.Chambit, R.Chapman, X.Liang, S.J.Freeman,A.Smith, B.J .Varley, V.Pucknell, R.Lemmon

The CLARA-PRISMA setup installed at LNL: first results

48. Proc.Third Intern.Workshop on Nuclear Fission and Fission-Product Spectroscopy, Cadarache, France, 11-14 May 2005, H.Goutte, H.Faust, G.Fioni, D.Goutte, Eds., p. 305 (2005); AIP Conf.Proc. 798 (2005)

M.G.Itkis, S.Beghini, B.R.Behera, A.A.Bogatchev, V.Bouchat, L.Corradi, O.Dorv aux, E.Fioretto, A.Gadea, F.Hanappe, I.M.Itkis, M.Jandel, J.Kliman,G.N.Knyazhe va, N.A.Kondratiev, E.M.Kozulin, L.Krupa, A.Latina, V.G.Lyapin, T.Materna, G. Montagnoli, Yu.Ts.Oganessian, I.V.Pokrovsky, E.V.Prokhorova,N.Rowley, V.A.R ubchenya, A.Ya.Rusanov, R.N.Sagaidak, F.Scarlassara, C.Schmitt, A.M.Stefanini, L.Stuttge, S.Szilner, M.Trotta, W.H.Trzaska,V.M.Voskressenski

Capture and Fusion-Fission Processes in Heavy Ion Induced Reactions

49. Eur.Phys.J. A 23, 473 (2005)

A.M.Stefanini, M.Trotta, B.R.Behera, L.Corradi, E.Fioretto, A.Gadea, A.Latina, S. Szilner, Y.W.Wu, S.Beghini, G.Montagnoli, F.Scarlassara, A.Yu.Chizhov,I.M.Itki s, N.A.Kondratiev, I.V.Pokrovsky, R.N.Sagaidak, G.N.Kniajeva, E.M.Kozulin, V. M.Voskressensky, S.Courtin, F.Haas, N.Rowley

Fusion-evaporation cross-sections for ^{48}Ca + ^{154}Sm near the Coulomb barrier: Evidence for fusion enhancement and hindrance

50. Phys.Rev. C 71, 044610 (2005)

S.Szilner, L.Corradi, G.Pollarolo, S.Beghini, B.R.Behera, E.Fioretto, A.Gadea, F.H aas, A.Latina, G.Montagnoli, F.Scarlassara, A.M.Stefanini, M.Trotta,A.M.Vinodku mar, Y.Wu

Multinucleon transfer processes in ^{40}Ca + ^{208}Pb

51. Proc.Nuclei at the Limits, Argonne, Illinois, D.Seweryniak and T.L.Khoo, eds., p.93 (2005); AIP Conf. Proc 764 (2005)

D.Tonev, G.de
Angelis, P.Petkov, A.Dewald, A.Gadea, P.Pejovic, D.Balabanski, P.Bednarczyk, F. Camera, A.Fitzler, M.Axiotis, D.Bazzacco, E.Farnea,S.Lenzi, S.Lunardi, N.Margin

ean, T.Martinez, R.Menegazzo, O.Moller, D.R.Napoli, A.Paleni, C.Petrache, G.Pre te, B.R.Behera, C.Rusu, C.Ur, K.O.Zell,Y.H.Zhang

Transition Probabilities And Chiral Symmetry In ^{134}Pr

52. Eur.Phys.J. A 25, Supplement 1, 615 (2005)

M.Trotta, A.M.Stefanini, S.Beghini, B.R.Behera, A.Yu.Chizhov, L.Corradi, S.Cou rtin, E.Fioretto, A.Gadea, P.R.S.Gomes, F.Haas, I.M.Itkis, M.G.Itkis,G.N.Kniajeva , N.A.Kondratiev, E.M.Kozulin, A.Latina, G.Montagnoli, I.V.Pokrovsky, N.Rowle y, R.N.Sagaidak, F.Scarlassara, A.Szanto de
Toledo, S.Szilner,V.M.Voskressensky, Y.W.Wu

Fusion hindrance and quasi-fission in ^{48}Ca induced reactions: Implications for super-heavy element production

53. Nucl.Phys. A734, 249 (2004)

B.R.Behera, S.Kailas, K.Mahata, A.Chatterjee, P.Basu, S.Roy, M.Satpathy, S.K.D atta

Role of Entrance Channel Properties in Heavy Ion Induced Fission Fragment Angular Distribution Studies

54. Phys.Rev. C 69, 064603 (2004)

B.R.Behera, M.Satpathy, S.Jena, S.Kailas, R.G.Thomas, K.Mahata, A.Chatterjee, S.Roy, P.Basu, M.K.Sharan, S.K.Datta

Fission fragment angular distributions for the systems ^{14}N + ^{232}Th and ^{11}B + ^{235}U at near and sub-barrier energies

55. Prog.Theor.Phys.(Kyoto), Suppl. 154, 130 (2004)

L.Corradi, S.Szilner, S.Beghini, B.R.Behera, E.Fioretto, A.Gadea, A.Latina, G.Mo ntagnoli, G.Pollarolo, F.Scarlassara, A.M.Stefanini, M.Trotta,A.M.Vinodkumar, Y. W.Wu

Multinucleon Transfer Reactions Studied with Magnetic Spectrometers

56. Nucl.Phys. A734, E1 (2004)

A.Latina, A.M.Stefanini, S.Beghini, B.R.Behera, L.Corradi, G.De Angelis, A.De Rosa, E.Fioretto, A.Gadea, M.Gulmini, G.Inglima, M.LaCommara, G.Maron,R.Menegazzo, N.Marginean, G.Montagnoli, D.R.Napoli, D.Pierroutsakou, G.Pollarolo, M.Romoli, M.Sandoli, F.Scarlassara, S.Szilner, N.Toniolo, M.Trotta,Y.W.Wu

PRISMA - a magnetic spectrometer for heavy ions at LNL

57. Prog.Theor.Phys.(Kyoto), Suppl. 154, 31 (2004)

F.Scarlassara, G.Montagnoli, S.Beghini, R.Silvestri, A.M.Stefanini, L.Corradi, B.R.Behera, E.Fioretto, S.Szilner, M.Trotta, Y.W.Wu, Z.H.Liu, M.Ruan, F.Yang,H.Q. Zhang

Subbarrier Fusion and Barrier Distributions of ^{48}Ca + $^{90, 96}$Zr

58. Nucl.Phys. A746, 195c (2004)

F.Scarlassara, S.Beghini, G.Montagnoli, B.R.Behera, L.Corradi, E.Fioretto, A.Gadea, A.Latina, A.M.Stefanini, S.Szilner, M.Trotta, Y.W.Wu

Multinucleon transfer measured with the magnetic spectrometer Prisma

59. Nucl.Phys. A734, E49 (2004)

S.Szilner, L.Corradi, F.Haas, G.Pollarolo, S.Beghini, B.R.Behera, A.Gadea, A.Latina, G.Montagnoli, F.Scarlassara, A.M.Stefanini, M.Trotta, A.M.Vinodkumar,Y.W. Wu

Search for pairing-vibration states in multinucleon transfer reactions

60. Eur.Phys.J. A 21, 87 (2004)

S.Szilner, L.Corradi, F.Haas, G.Pollarolo, S.Beghini, B.R.Behera, E.Caurier, E.Fioretto, A.Gadea, A.Latina, G.Montagnoli, F.Nowacki, F.Scarlassara,A.M.Stefanini, M.Trotta, A.M.Vinodkumar, Y.W.Wu

Search for pairing-vibration states of even Ca isotopes in ^{40}Ca + ^{208}Pb transfer reactions

61. Prog.Theor.Phys.(Kyoto), Suppl. 154, 37 (2004)

M.Trotta, A.M.Stefanini, B.R.Behera, L.Corradi, E.Fioretto, A.Gadea, S.Szilner, Y .W.Wu, S.Beghini, G.Montagnoli, F.Scarlassara, A.Yu.Chizhov, I.M.Itkis,G.N.Kni ajeva, N.A.Kondratiev, E.M.Kozulin, I.V.Pokrovsky, R.N.Sagaidak, V.M.Voskres sensky, F.Haas, N.Rowley

Fusion Hindrance and Quasi-Fission in ^{48}Ca Induced Reactions

62. Phys.Rev. C 68, 067601 (2003)

M.Ray, A.Mukherjee, M.S.Sarkar, A.Goswami, S.Roy, S.Saha, R.Bhattacharya, B. R.Behera, S.K.Datta, B.Dasmahapatra

Fusion cross sections for ^{7}Li + ^{16}O at energies above barrier

63. nucl-ex/0312004, 12/3/2003 (2003)

S.Szilner, L.Corradi, B.R.Behera, E.Fioretto, A.Gadea, A.Latina, A.M.Stefanini, M.Trotta, A.M.Vinodkumar, Y.W.Wu, S.Beghini, G.Montagnoli, F.Scarlassara, G.Pollarolo, F.Haas, E.Caurier, F.Nowacki

Search for pairing-vibration states of even Ca isotopes in ^{40}Ca + ^{208}Pb transfer reactions

64. Phys.Rev. C66, 047602 (2002).

B.R.Behera, S.Jena, M.Satpathy, S.Roy, P.Basu, M.K.Sharan, M.L.Chatterjee, S.Kailas, K.Mahata, S.K.Datta

Statistical model analysis of fission fragment angular distributions for the system ^{16}O+^{181}Ta.

65. Phys.Rev. C66, 034601 (2002)

J.Kaur, I.M.Govil, G.Singh, A.Kumar, A.Kumar, B.R.Behera, S.K.Datta

Search for Entrance Channel Effects in Heavy Ion Induced Fusion Reactions Through the Compound System ^{79}Rb*

66. Phys.Rev. C64, 041602 (2001) **(Rapid Communication)**

B.R.Behera, S.Jena, M.Satpathy, S.Kailas, K.Mahata, A.Shrivastava, A.Chatterjee, S.Roy, P.Basu, M.K.Sharan, S.K.Datta

Entrance-Channel Effect in Fission Fragment Anisotropies from $^{11}B + ^{235}U$ and $^{14}N + ^{232}Th$ Systems

67. Pramana 53, 563 (1999)

B.R.Behera, S.Roy, P.Basu, M.K.Sharan, S.Jena, M.Satpathy, S.K.Datta, L.Satpathy, M.L.Chatterjee

Fission Fragment Angular Distributions in $^{16}O + ^{181}Ta$

68. NIM A, Volume 416, 81 (1998)

B.R. Behera, M. Satpathy, P. Basu, M.L. Chatterjee

Role of catalyst to improve P-10 filled gas counter performance