

## Ph.D. Theses 1990-2008

1. *M. Dasgupta* Study of cross section and average angular momenta in fusion reactions of  $^{28}\text{Si} + ^{68}\text{Zn}$ ,  $^{32}\text{S} + ^{64}\text{Ni}$ ,  $^{37}\text{Cl} + ^{59}\text{Co}$  and  $^{45}\text{Sc} + ^{51}\text{V}$  nuclei near the Coulomb barrier (TIFR, 1992)
2. *Pragya Singh* Spectroscopy of high spin nuclear states of  $^{92,91,90}\text{Mo}$  excited by heavy ion reactions (TIFR, 1992)
3. *S. Khatua* Magnetic behaviour of 4d ion  $^{100}\text{Rh}$  in metals and alloys (TIFR, 1993)
4. *L.C. Tribedi* Inner shell vacancy production in ion solid collision and its implication to transient magnetic fields (1993)
5. *M.K. Sharan* Study of high energy gamma rays following heavy ion collisions (TIFR, 1993)
6. *A.K. Saxena* Studies of neutron emission in heavy ion induced fusion-fission reactions (BARC, 1994)
7. *S. Chattopadhyay* Investigation of nuclear structure at high spins in mass-80 region (TIFR, 1994)
8. *V. Nanal* Compound nuclear lifetime measurements in  $A \sim 40$  nuclei using heavy ion channeling and blocking (TIFR, 1994)
9. *A.K. Mohanty* Heavy ion fusion reactions (BARC, 1994)
10. *V.V. Krishnamurthy* Microscopic studies of magnetic interaction in metals (TIFR, 1995)
11. *S.K. Charagi* Coulomb modified Glauber model description of heavy ion elastic scattering and reaction cross sections (BARC, 1995)
12. *A.K. Pandey* Studies on the fission properties of low Z elements by solid state nuclear track detectors (BARC, 1995)
13. *Suresh Kumar* Investigations on heavy ion nuclear resonances in  $^{12}\text{C}+^{16}\text{O}$  system in 32 to 55 MeV excitation energy region on  $^{28}\text{Si}$  (BARC, 1995)
14. *B.J. Roy* Reaction Mechanism in heavy ion reactions (BARC, 1996)
15. *S.D. Paul* Structure of High Spin States in Mass-82 Nuclei (TIFR, 1996)
16. *R.S. Chakravarthy* Nuclear Structure of the mass region  $A \sim 110$  (TIFR, 1996)
17. *A. Navin* Study of Heavy ions fusion and transfer reactions around the Coulomb Barrier (BARC, 1996)
18. *S.V.S. Shastry* Heavy ion reaction studies (BARC, 1996)
19. *D.C. Biswas* Multinucleon transfer and transfer induced fission studies with heavy ions (BARC, 1996)
20. *Bhas Bapat* Two-electron Processes in Collisional Ionisation (TIFR, 1997)
21. *P.S. Bhave* Studies on Radiation Induced Defects in semiconductor devices (1997)
22. *B.K. Nayak* Study of Angular momentum Distributions in Heavy Ion Induced Reactions (BARC, 1997)
23. *A.M. Samant* Heavy Ion induced fission fragment angular distribution measurements as a probe to investigate fission mechanisms (BARC, 1998)
24. *Nandini Bhattacharya* Spectroscopy of Highly ionized atoms (TIFR, 1998)
25. *Bency John* Heavy ion induced fission and fission like reactions (BARC, 1998)
26. *Nayana Majumdar* Investigation on Heavy ion induced fission of heavy nuclei at near and sub-coulomb barrier energies (SINP, 1998)
27. *E.T. Mirgule* Investigations on cluster aspects of nuclei through direct and resonance reactions (BARC, 1998)
28. *D. Shetty* Study of fragment spin distribution in heavy-ion induced fission (BARC, 1998)

29. *A.K. Saha* Inner shell electron transfer and ionization studies in heavy ion-atom collision at intermediate impact velocities (TIFR, 1999)
30. *A. Tulapurkar* Magnetic and quadrupole interaction studies in some metals and alloys (TIFR, 1999)
31. *A. Shrivastava* Influence of nuclear structure and dynamics in heavy ion induced fusion and fission reaction (BARC, 1999)
32. *D. Nayak* Studies on the production and separation of carrier free rare earths by nuclear activation technique (SINP, 1999)
33. *B. Bindukumar* Study of light and heavy ion induced nuclear reactions by excitation functions and recoil range distribution measurements (Vikram University-Ujjain, 1999)
34. *Rituparna Kanungo* Studies on breakup phenomena in nuclear reactions with light ions (SINP, 1999)
35. *U. Pal* Experimental investigations on nuclear level densities (BARC, 2000)
36. *D. Bandopadhyay* Studies on the decay of light composite system produce by low energy heavy ion reaction (VECC, 2000)
37. *S. Santra* Coupled channel effects in carbon induced reactions at near barrier energies (BARC, 2001)
38. *D. Gupta (SINP)* Studies on structure and reaction dynamics of light stable and unstable nuclei through nuclear reactions (2001)
39. *K. Banerjee* Studies on the separation of carrier free radioisotopes of the third transition series elements produced through nuclear activation techniques (SINP, 2001)
40. *S. Sinha* Studies of fusion barrier distribution from quasielastic scattering (IIT-Bombay, 2001)
41. *L.M. Pant* Heavy Ion Induced Fusion-Fission Reactions (BARC, 2001)
42. *R. Palit* Electromagnetic properties of Nuclei in mass 70 to 80 region (TIFR, 2001)
43. *Mr Anil Sharma* (Vikram University-Ujjain, 2001)
44. *K. Mukhopadhyay* Studies on the liquid liquid extraction of some s and p block elements in trace level (SINP, 2002)
45. *B. Behra* Probing heavy ion induced fusion fission reaction dynamics through fission fragment distributions (IUAC, 2002)
46. *B.S. Narasingh* Spectroscopy of nuclei in the mass region A=150 (TIFR, 2002)
47. *S. Rathi* Angular momentum gated giant dipole resonance measurements in the hot rotating nuclei of A~85 (BARC, 2003)
48. *Kamalika Roy* Solid phase extractants: Preparation, characterization and their analytical applications (SINP, 2003)
49. *Sarmishtha Bhattacharyya* Nuclear structure studies around A=140 region (VECC, 2003)
50. *Yeshpal Singh* Heavy Ion Induced K-, L- and M-shell ionization of high Z elements I the intermediate energy range and the associated effects (TIFR, 2004)
51. *N.S. Pattabhiraman* High spin studies in Nuclei near the neutron magic number N=50 (IUC-DAEF, Kolkata, 2004)
52. *K. Mahata* Heavy ion induced fusion and fission reactions around the Coulomb barrier: Role of nuclear structure (BARC, 2004)
53. *Parnika Das* Change in decay rate of  $^7\text{Be}$  in different environments and its implications in the solar neutrino problem (VECC, 2004)
54. *K.Surendra Babu* Investigation on the Mechanism of Incomplete Fusion in Heavy Ion Reactions (Vikram University-Ujjain, 2004)

55. *Y.S. Sawant* Studies of Fragment mass, energy correlations in heavy ion induced fission (BARC, 2005)
56. *S. Lakshmi* Structure of high spin states in mass 130 region (TIFR, 2005)
57. *P.K. Sahu* Multinucleon transfers in heavy ion induced reactions (BARC, 2005)
58. *U.R. Kadhane* Study of atomic collision processes in clusters and solids (TIFR, 2006)
59. *Sucheta Adhikari* A study of some static and dynamic properties of stable and unstable nuclei (SINP, 2006)
60. *M. Hemalatha* Study of exotic nuclei (BARC, 2006)
61. *Pradip Dutta* High spin structure of neutron rich nuclei in mass - 100 region (SINP, 2007)
62. *Suresh Kumar* Study of Shape Effects and Magnetic Rotation in  $N = 79$  and  $47$  Nuclei (IIT-Roorkee, 2007)
63. *Aparajita Dey* Study of Dissipative Nuclear Reaction in Low Energy Light Heavy Ion Collision (SINP, 2007)
64. *Renju Thomas* Studies in Heavy ion induced fission (BARC, 2005)
65. *A.K. Gupta* Collisional Detachment and Dissociation Studies of Cluster Anions (BARC, 2006)
66. *Deepankar Mishra* Low energy electron spectroscopic studies in highly charged heavy ion collisions with atoms and molecules (TIFR, 2007)
67. *Samir Maji* Application of tracer packet in radiochemical sciences (SINP, 2007)
68. *Vivek Parkar* Reaction Mechanism Studies Involving  ${}^7\text{Li}$  Projectile (BARC, 2008)
69. *Ritesh Kshetri* Shell Structure and Evolution of Collectivity on and away from the Stability Line (SINP, 2008)
70. *C. Sunil* Characterization of neutron yields from particle accelerators for radiation protection (BARC, 2008)
71. *Somen Chanda* High spin spectroscopy of odd mass light rare earth nuclei (SINP, 2008)
72. *Rahul Tripathi* Fusion-fission studies in heavy ion induced nuclear Reactions (BARC, submitted)
73. *Anupam Banerjee* Radiochemical studies on the utilization of some bioreagents for preconcentration of trace elements in the multielimental environment (SINP, submitted)
74. *Aditya Kelkar* Interaction of Fast Heavy Ions with  $\text{C}_{60}$  Fullerene and Giant Dipole Plasmon Resonance (TIFR, submitted)
75. *A. Chakraborty* Spectroscopy of Nearly Spherical Nuclei At Higher Angular Momentum (IUC-DAEF, Kolkata, submitted)
76. *S. Ray* Nuclear Structure studies in  $90 \leq A \leq 100$  Region by In-Beam Gamma ray Spectroscopy (IUC-DAEF, Kolkata, submitted)
77. *Mili Biswas* Investigation of the interaction potential for the systems  ${}^6,7\text{Li} + {}^{58,64}\text{Ni}$  around the Coulomb barrier (SINP, submitted)