

CURRICULUM VITAE

(Last updated on May 30, 2021)

1. Name: Muktish Acharyya

2. Affiliation: Professor, Department of Physics,
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3. Date of Birth: January 7, 1965

4. Academic qualification:

B. Sc.(Physics)- University of Kalyani-1986

M. Sc.(Physics)- University of Kalyani-1988 (Exam. held in 1989)

Specialisation in M.Sc.: Solid State Physics.

PhD - Saha Institute of Nuclear Physics(Calcutta University)-1996

5. Postdoctoral research experiences:

(a) July 98-July 1999: Postdoctoral fellow, Department of Physics, Duisburg University, D-47048 Duisburg, Germany, financed by Graduiertenkolleg.

(b) July 97-June 98: Postdoctoral fellow, Institute for Theoretical Physics, University of Cologne, D-50923 Cologne, Germany, financed by Sonderforschungsbereich 341.

(c) July 96-April 97: Research Associate, Department of Physics, Indian Institute of Science, Bangalore-560012, India, funded by Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India.

6(A). List of Publications (Peer reviewed):

www.scopus.com/authid/detail.uri?authorId=7003951569
<https://publons.com/researcher/1446081/muktish-acharyya/>
scholar.google.co.in/citations?user=BsX4IMYAAAAJ&hl=en
<https://exaly.com/author/1507958/muktish-acharyya/rankings>

1. M. Acharyya, **Rodlike Heisenberg nanomagnet driven by propagating magnetic wave: Nonequilibrium phase transition**, Int. J. Mod. Phys. C (World Scientific), 2022 (in press).
<https://doi.org/10.1142/S0129183122501297>
2. A. Datta and M. Acharyya, **Modelling the Spread of an Epidemic in Presence of Vaccination using Cellular Automata**, Int. J. Mod. Phys. C (World Scientific), 2022 (in press).
<https://doi.org/10.1142/S0129183122500942>
3. M. Naskar and M. Acharyya, **Competitive metastable behaviours of surface and bulk in Ising ferromagnet**, Eur. Phys. J. B **94** (2021) 140.
<https://doi.org/10.1140/epjb/s10051-021-00158-z>
4. M. Naskar, M. Acharyya, E. Vatansever and N. G. Fytas, **Metastable behavior of the spin-s Ising and Blume-Capel ferromagnets: A Monte Carlo study**, Phys. Rev. E **104** (2021) 014107.
<https://doi.org/10.1103/PhysRevE.104.014107>
5. M. Naskar and M. Acharyya, **Anisotropy driven reversal of magnetisation in Blume-Capel ferromagnet: A Monte Carlo study**, Eur. Phys. J. B **94** (2021) 36.
<https://doi.org/10.1140/epjb/s10051-021-00052-8>
6. M. Naskar and M. Acharyya, **Metastability in graded and step like variation of field and anisotropy in the Blume-Capel ferromagnet**, Physica A: Statistical Mechanics and its Applications (Elsevier), **568** (2021) 125747
<https://doi.org/10.1016/j.physa.2021.125747>
7. E. Vatansever and M. Acharyya, **Nonequilibrium Multiple Transitions in the Core-shell Ising Nanoparticles Driven by Randomly Varying Magnetic Fields**, Journal of Magnetism and Magnetic Materials (Elsevier), **527** (2021) 167721.
<https://doi.org/10.1016/j.jmmm.2020.167721>
8. T. Das and M. Acharyya, **Transient behaviour towards the stable limit cycle in the Selkov model of Glycolysis: A physiological disorder**, Physica A: Statistical Mechanics and its Applications (Elsevier) **567** (2021) 125684.
<https://doi.org/10.1016/j.physa.2020.125684>

9. M. Acharyya, **Role of anisotropy to the compensation in the Blume-Capel trilayered ferrimagnet**, *Superlattice and Microstructures (Elsevier)* **147** (2020) 106648. <https://doi.org/10.1016/j.spmi.2020.106648>
10. M. Naskar and M. Acharyya, **Effects of random fields on the reversal of magnetisation of Ising ferromagnet**, *Physica A (Elsevier)* **551** (2020) 124583. <https://doi.org/10.1016/j.physa.2020.124583>
11. Sk. Sajid and M. Acharyya, **Compensation in site diluted spin-1/2 Ising ferrimagnet: A Monte Carlo study**, *Phase Transition (Taylor and Francis)* **93** (2020) 62-73. <https://doi.org/10.1080/01411594.2019.1692016>
12. A. Halder and M. Acharyya, **Universality Class of the Nonequilibrium Phase Transition in Two-Dimensional Ising Ferromagnet Driven by Propagating Magnetic Field Wave**, *Applied Mathematics*, **10** (2019) 568-577. <https://doi.org/10.4236/am.2019.107040>
13. S. Kayal and M. Acharyya, **Transient phases in the Vicsek model of flocking**, *Journal of Physics Through Computation*, **1** (2018) 17-30 <https://doi.org/10.23977/jptc.2018.11003>
14. R. Datta, M. Acharyya and A. Dhar, **Magnetisation reversal in Ising ferromagnet by thermal and field gradients**, *Helvion (Elsevier)*, **4** (2018) e00892, <https://doi.org/10.1016/j.helivon.2018.e00892>.
15. M. Acharyya, **Driven spin wave modes in XY ferromagnet: Nonequilibrium Phase Transition**, *Phase Transitions* **91** (2018) 793 <https://doi.org/10.1080/01411594.2018.1506878>
16. J. Chattopadhyay and M. Acharyya, **Statistics of projected motion in one dimension of a d dimensional random walker**, *Applied Mathematics*, **9** (2018) 602 <https://doi.org/10.4236/am.2018.96042>
17. A. Halder and M. Acharyya, **Nonequilibrium phase transitions in spin-S Ising ferromagnet driven by propagating and standing magnetic field wave**, *Communications in Theoretical Physics (IOP)*, **68** (2017) 600 <https://ctp.itp.ac.cn/EN/Y2017/V68/I05/600>
18. M. Acharyya, **Spin flip statistics and spin wave interference patterns in Ising ferromagnetic films: A Monte Carlo study**, *Helvion (Elsevier)* **3** (2017) e00357 <https://doi.org/10.1016/j.helivon.2017.e00357>.

19. M. Acharyya and A. Halder, **Blume-Capel ferromagnet driven by propagating and standing magnetic field wave: Dynamical modes and nonequilibrium phase transition**, *J. Magn. Magn. Mater.*, **426** (2017) 53
<https://doi.org/10.1016/j.jmmm.2016.11.046>
20. A. Dhar and M. Acharyya, **Reversal of magnetisation in Ising ferromagnet by the field having gradient**, *Commun. Theor. Phys. (IOP)*, **66** (2016) 563.
21. A. Banerjee and M. Acharyya, **Spatio-temporal dynamics of the Kuramoto-Sakaguchi model with time dependent connectivity**, *Phys. Rev. E*, **94** (2016) 022213
22. A. Halder and M. Acharyya, **Standing magnetic wave on Ising ferromagnet: Nonequilibrium phase transition**, *J. Magn. Magn. Mater.* **420** (2016) 290.
23. M. Acharyya, **Exit probability and first passage time of a lazy Pearson walker: Scaling behaviour**, *Applied Mathematics* **7** (2016) 1353.
24. M. Acharyya, **Model and statistical analysis of the motion of a tired random walker in continuum**, *Journal of Modern Physics* **6** (2015) 2021.
25. M. Acharyya, **Standing spin wave mode in RFIM: Patterns and athermal nonequilibrium phases**, *J. Magn. Magn. Mater.*, **394** (2015) 410.
26. M. Acharyya, **Ising metamagnet driven by propagating magnetic field wave: Nonequilibrium phases and transitions**, *J. Magn. Magn. Mater.*, **382** (2015) 206.
27. S. Ghosh, M. Acharyya, T. Majumder and A. Bagchi, **Metabolic signatures of oxidative stress and their relationship with erythrocyte membrane surface roughness among workers of manual materials handling (MMH)**, *North American Journal of Medical Sciences*, **77** (2015) 558
28. M. Acharyya, **Nucleation in Ising ferromagnet by a field spatially spreading in time**, *Physica A*, **403**, (2014) 94
29. M. Acharyya, **Dynamic Symmetry Breaking Breathing and Spreading Transitions in Ferromagnetic Film Irradiated by Spherical Electromagnetic Wave**, *J. Magn. Magn. Mater.*, **354**, (2014) 349
30. M. Acharyya, **Polarised electromagnetic wave propagation through the ferromagnet: Phase boundary of dynamic phase transition**, *Acta Physica Polonica B*, **45** (2014) 1027
31. M. Acharyya, **Random field Ising model swept by propagating magnetic field wave: Athermal nonequilibrium phase diagram**, *J. Magn. Magn. Mater.* **334** (2013) 11.

32. M. Acharyya, **Nonequilibrium phase transition in the kinetic Ising model: Absence of tricritical behaviour in presence of impurities**, *Acta Physica Polonica B*, **43** (2012) 2041.
33. A. B. Acharyya and M. Acharyya, **Bose - Einstein condensation in arbitrary dimensions**, *Acta Physica Polonica B*, **43** (2012) 1805
34. M. Acharyya, **Form invariant Sommerfeld electrical conductivity in generalised d - dimensions**, *Communications in Theoretical Physics*, **56** (2011) 943
35. M. Acharyya, **Nonequilibrium phase transition in the kinetic Ising model driven by propagating magnetic field wave**, *Physica Scripta*, **84** (2011) 035009
36. M. Acharyya, **Monte Carlo study of the dynamic phase transition in Ising metamagnet driven by oscillating magnetic field**, *Journal of Magnetism and Magnetic Materials*, **323** (2011) 2872
37. M. Acharyya, **Pauli spin paramagnetism and electronic specific heat in generalised d dimensions**, *Communications in Theoretical Physics*, **55** (2011) 901
38. M. Acharyya and A. B. Acharyya, **Evidence of invariance of time scale at critical point in the Ising meanfield equilibrium equation of state**, *Communications in Theoretical Physics*, **55** (2011) 1109
39. M. Acharyya, **Nonequilibrium Magnetisation reversal by periodic Impulsive fields in Ising meanfield dynamics**, *Physica Scripta*, **82** (2010) 065703
40. M. Acharyya, **Noninteracting fermions in infinite dimensions**, *European Journal of Physics*, **31** (2010) L89
41. M. Acharyya and A. B. Acharyya, **Critical Slowing down along the dynamic phase boundary in Ising meanfield dynamics**, *Int. J. Mod. Phys. C*, **21** (2010) 481
42. M. Acharyya and A. B. Acharyya, **Inflection point as a manifestation of tricritical point on the dynamic phase boundary in Ising meanfield dynamics**, *Communications in Computational Physics*, **3** (2008) 397
43. M. Acharyya, **Nonequilibrium multicritical behavior in anisotropic Heisenberg ferromagnet driven by oscillating magnetic field**, *Int. J. Mod. Phys. C*, **17** (2006) 1107
44. M. Acharyya, **Nonequilibrium Phase Transitions in model ferromagnets: A review**, *Int. J. Mod. Phys. C*, **16** (2005) 1631
45. M. Acharyya, **Multiple dynamic phase transitions in anisotropic Heisenberg ferromagnet driven by polarised magnetic field**, *Phys. Rev. E*, **69** (2004) 027105

46. M. Acharyya and A. B. Acharyya, **Modelling and computer simulation of an insurance policy: A search for maximum profit**, *Int. J. Mod. Phys. C*, 14 (2003) 1041
47. M. Acharyya, **Axial and off axial dynamic transitions in uniaxially anisotropic Heisenberg ferromagnet: A comparison**, *Int. J. Mod. Phys. C*, 14 (2003) 49
48. M. Acharyya, **Off-axial symmetry breaking in uniaxially anisotropic Heisenberg ferromagnet**, *Int. J. Mod. Phys. C*, 12 (2001) 709
49. M. Acharyya, A. Basu, R. Pandit & S. Ramaswamy, **Inequivalence of Dynamical Ensembles in a Generalised Driven Diffusive Lattice Gas**, *Phys. Rev. E*, 61 (2000) 1139
50. M. Acharyya, U. Nowak and K. D. Usadel, **Transverse ordering of an antiferromagnet in a field with oblique angle to the easy axis**, *Phys. Rev. B*, 61 (2000) 464
51. B. K. Chakrabarti and M. Acharyya, **Dynamic transitions and Hysteresis**, *Rev. Mod. Phys.*, **71**, (1999) 847
52. M. Acharyya, **Nonequilibrium phase transition in the kinetic Ising model: Existence of tricritical point and stochastic resonance**, *Phys. Rev. E*, **59** (1999) 218
53. M. Acharyya and D. Stauffer, **Effects of boundary conditions on the critical spanning probability**, *Int. J. Mod. Phys. C*, **9** (1998) 643
54. M. Acharyya, **Nonequilibrium phase transition in the kinetic Ising model: Is transition point the maximum lossy point ?**, *Phys. Rev. E*, **58** (1998) 179
55. M. Acharyya, **Nonequilibrium phase transition in the kinetic Ising Model: Dynamical symmetry breaking by randomly varying magnetic field**, *Phys. Rev. E*, **58** (1998) 174
56. M. Acharyya and D. Stauffer, **Nucleation and hysteresis in Ising model: Classical theory versus computer simulation**, *European Physical Journal B*, **5** (1998) 571; Erratum EPJB, **7** (1999) 169
57. M. Acharyya, **Comparisons of meanfield and Monte Carlo approaches to dynamic hysteresis in Ising ferromagnets**, *Physica A*, **253** (1998) 199
58. S. S. Mandal and M. Acharyya, **Specific heat in the integer quantum Hall effect: An exact diagonalization approach**, *Physica B*, **252** (1998) 91
59. M. Acharyya, **Zero temperature dynamic transition in the random field Ising model: A Monte Carlo study**, *Physica A*, **252** (1998) 151 do not have any conflict of interest

60. M. Acharyya, **Nonequilibrium phase transition in the kinetic Ising model: Critical slowing down and specific-heat singularity**, *Phys. Rev. E*, **56** (1997) 2407
61. M. Acharyya, **Nonequilibrium phase transition in the kinetic Ising model: Divergences of fluctuations and responses near the transition point**, *Phys. Rev. E*, **56** (1997) 1234
62. M. Acharyya, J. K. Bhattacharjee and B. K. Chakrabarti, **Dynamic Response of Ising System to a Pulsed field**, *Phys. Rev. E*, **55** (1997) 2392
63. M. Acharyya, **Nonequilibrium phase transition and ‘specific-heat’ singularity in the kinetic Ising model: A Monte Carlo study**, *Physica A*, **235** (1997) 469
64. M. Acharyya and B. K. Chakrabarti, **Response of random dielectric composites and earthquake models to pulses: Prediction possibilities** *Physica A*, **224** (1996) 254
65. M. Acharyya and B. K. Chakrabarti, **Growth of breakdown susceptibility in random composites and stick-slip model of earthquakes: Prediction of breakdown voltage and other catastrophes**, *Phys. Rev. E*, **53** (1996) 140; Erratum, *Phys. Rev. E*, **54** (1996) 2174
66. M. Acharyya and B. K. Chakrabarti, **Growth of breakdown susceptibility in random composites and in BTW model: Prediction of dielectric breakdown and other catastrophes**, *Ind. J. Phys. A* **69** (1995) 205
67. M. Acharyya and B. K. Chakrabarti, **Response of Ising systems to oscillating and pulsed fields: Hysteresis, ac and pulsed susceptibility**, *Phys. Rev. B*, **52** (1995) 6550
68. M. Acharyya and B. K. Chakrabarti, **Study of response to pulses and possible prediction of catastrophes**, *J. Phys. I (France)*, **5** (1995) 153
69. M. Acharyya and B. K. Chakrabarti, **Ising system in oscillating field: Hysteretic response**, in *Annual reviews of computational physics*, Ed. D. Stauffer, (World Scientific, Singapore), Vol. **1** (1994) 107
70. M. Acharyya and B. K. Chakrabarti, **AC susceptibility and hysteresis in Ising magnets**, *J. Mag. Mag. Mat.*, **136** (1994) L29
71. M. Acharyya, B. K. Chakrabarti and R. B. Stinchcombe, **Hysteresis in Ising model in transverse field**, *J. Phys. A: Math. Gen.*, **27**, (1994) 1533
72. M. Acharyya and B. K. Chakrabarti, **Magnetic hysteresis loops as Lissajous plots of relaxationally delayed response to periodic field variation**, *Physica A*, **202** (1994) 467

73. M. Acharyya, **Structural properties of planar random heap of hard discs**, *J. Phys. I (France)*, **3** (1993) 905 ; Erratum, *J. Phys. I (France)*, **3** (1993) 2123
74. M. Acharyya and B. K. Chakrabarti, **Monte Carlo study of hysteretic response and relaxation in Ising models**, *Physica A*, **192** (1993) 471
75. B. K. Chakrabarti and M. Acharyya, **Instabilities in a sandpile under vibration**, *J. Phys. I (France)*, **2** (1992) 389

6(B). Publications in Conference proceedings:

76. M. Acharyya, *Patterns, dynamics and phase transitions in Ising ferromagnet driven by magnetic field wave* in the **STATPHYS-VIII**, held at SNBNCBS, Kolkata, India, December 1-5, 2014. Invited lecture materials published in *Journal of Physics: Conference Series (IOP)* **638** (2015) 012008. (DOI:10.1088/1742-6596/638/1/012008)
77. M. Acharyya, U. Nowak and K. D. Usadel, *Phase diagram of a classical anisotropic Heisenberg antiferromagnet in a field*, in Conference proceeding, *Structure and Dynamics of Heterogeneous systems* Eds. P. Entel and D. E. Wolf, World-Scientific, (1999) pp 317.
78. M. Acharyya, P. Ray and B. K. Chakrabarti, *Cluster Statistics in Dielectric Breakdown*, *Physica A* (Elsevier), **224** (1996) 287
79. M. Acharyya, B. K. Chakrabarti and A. K. Sen, *Monte Carlo study of the hysteretic response of two dimensional Ising system: Scaling behaviour*, *Physica A* (Elsevier), **186** (1992) 231

7(A). Editorship of International Research Journals:

1. **Joint Editor-in-Chief**, *Journal of Physics Through Computation*, Clausius Scientific Press, Ottawa, Canada. A peer reviewed, Scopus indexed International Research Journal (**ISSN:2617-1163**).
www.clausiuspress.com/journal/JPTC/editorialBoard.html

7(B). Editorial Board Membership of International Journals:

1. Editorial Advisory Board member of the Journal *Heliyon* (CellPress),
www.cell.com/heliyon/physics/editors
2. Associate Editor of the Journal *Frontiers in Physics*
(**ISSN:2296-424X**)
(www.frontiersin.org/journals/physics/sections/interdisciplinary-physics)

8. Reviewer of research projects/papers (names of the Journals):

Project proposals:

1. Reviewed one Proposal of Project (National Science Foundation, USA) in 2000
2. Reviewed one Proposal of Project (US-Israel Binational Science Foundation) in 2015

Journals:

1. Europhysics Letters (IOP)
2. Journal of Magnetism and Magnetic Materials (Elsevier)
3. Physics Letters A (Elsevier) (outstanding reviewer 2017)
4. Physica A (Elsevier) (outstanding reviewer 2017)
5. Physica B (Elsevier)
6. Phase Transitions (Taylor and Francis)
7. Chemical Physics letters (Elsevier) (outstanding reviewer 2016)
8. Journal of Theoretical Biology (Elsevier) (outstanding reviewer 2017)
9. European Physical Journal B (Springer)

9. Citations of my works in books:

1. *A Kinetic view in Statistical Physics*, P M Krapivsky, S Redner and E Ben-Naim, 2010, Cambridge University Press.
2. *Domains in ferroic crystals and thin films*, A K Tagantsev, L E Cross and J Fousek, 2010, Springer.
3. *Quantum Ising phases and transitions in transverse Ising models*, S Suzuki, J Inoue and B K Chakrabarti, 2012, Springer.

10. Research interests:

1. Metastability in model ferromagnets.
2. Interference of spin waves.
3. Behaviours of driven systems.
4. Random walk.
5. Nonlinear dynamics.
6. Behaviours of active matter.
7. Compensation transition in magnetic models.
8. Nanomagnetism.

11. My coauthors/collaborators:

Bikas Chakrabarti (SINP, Calcutta), Rahul Pandit (IISC, Bangalore), Sriram Ramaswamy (IISC, Bangalore), Sudhansu Mandal (IIT, Kharagpur), Jayanta Bhattacharjee (IACS, Kolkata), Dietrich Stauffer (Cologne University, Germany), Robin Stinchcombe (Oxford University, UK), Ulrich Nowak (Konstanz University, Germany), Klaus Usadel (Duisburg University, Germany), Ajanta Bhowal Acharyya (Lady Brabourne College, Calcutta), Abhik Basu (SINP, Calcutta), Ashok Sen (SINP, Calcutta), Purushottam Ray (IMSC, Chennai), Amitava Banerjee (Presidency University), Ajay Halder (Presidency University, Kolkata), Abyaya Dhar (IIT, Kharagpur), Jayeeta Chattopadhyay (IISc, Bangalore), Ranajay Dutta (Hyderabad University), Sayantani Kayal (TCIS, Hyderabad), Sk. Sajid (PU), Moumita Naskar (PU), Tanmay Das (Government college, Kalna), Erol Vatansever (Dökuz Eylül University, Turkey), Nikolaos G. Fytas (Coventry University, UK), Agniva Datta (PU).

12. Ph.D Supervision :

1. Ajay Halder–Awarded in January, 2020.

Title:*Nonequilibrium Phase transition in ferromagnetic model systems*

<http://hdl.handle.net/10603/277344>

2. Moumita Naskar (Thesis submitted in January,2022)

Title:*Statistical studies of metastable lifetimes in magnetic model systems*

13. Projects supervised:

(A) B.Sc. Projects (6 credits):

1. Pritam Manna (2021): *A Monte Carlo Study of Compensation in Trilayered XY model*
2. Sourjya Bhattacharjee (2020): *Random matrices and the distribution of arrival times in New York city subway system*
3. Kuntal Pramanik (2018): *Bak-Tang-Weisenfeld model with probabilistic directional flow.*
4. Suman Pramanick (2018): *Onset of avalanches in BTW model of self organised criticality*
5. Sk. Sajid (2018): *Compensation transition and thermodynamics of S-1/2 Ising trilayer system. Results published in Phase Transition 93 (2020) 62*
6. Ranajay Dutta (2017): *Magnetisation reversal in presence of thermal gradient only and the simultaneous presence of thermal and field gradient. Results published in Heliyon*

4 (2018) e00892

7. Shreya Kumbhakar (2017): *Can we expect mobility edge in one dimensional systems for incommensurate potential ?*

8. Pronobesh Maity (2017): *Role of dimensionality in Classical and Quantum many body systems.*

9. Samudra Sur (2017): *Creation of new level-differences in quantum systems using random perturbations.*

10. Amitava Banerjee (2016): *Collective dynamics of coupled nonlinear oscillators, Published in Phys. Rev. E. 94 (2016) 022213*

(B) M.Sc. Projects (20 credits):

1. Agniva Datta (2021): *Modelling the Spread of an Epidemic in presence of vaccination using cellular automata* Published in Int. J. Mod. Phys. C (world scientific) 2022 (in press).

2. Disha Roy (2021): *First Order Phase Transition as Subcritical Pitchfork Bifurcation*

3. Pradipta Mandal (2021): *The compensation in ferrimagnetic trilayer*

4. Arindam Das (2020): *Bacterial motion and Langevin equation*

5. Aritra Krishna De (2019): *Effects of nonmagnetic impurities on the reversal of ferromagnets*

6. Sayantani Kayal (2018): *Studies on the transient phases in the Vicsek model of flocking.* Published in *Journal of Physics Through Computation*, **1** (2018) 17.

DOI:10.23977/jptc.2018.11003

7. Maneesha Ghosh (2017): *Theoretical analysis of ferromagnetic hysteresis*

8. Abyaya Dhar (2016): *Nucleation in Ising ferromagnet by a field having gradient.* Published in *Communications in Theoretical Physics (IOP)* **66** 2016 563

9. Jayeeta Chatterjee (2016): *Tired walk and projected diffusion from higher dimensional random walk.* Published in *Applied Mathematics* **9** (2018) 602.

10. Santanu Dey (2015): *Statistics of droplet size in nucleating Ising ferromagnet*

11. Sukanta Chowdhury (2015): *Monte Carlo study on the effects of speed breaker and traffic signal in Nagel-Schrekenberg model of freeway traffic*

12. Rajit Thakur (2014): *Olami-Feder-Christensen automata model of earthquake for dissipative inhomogeneous system*

13. Tanmoy Biswas (2014): *The Olami-Feder-Christensen automaton model of earthquake for dissipative and homogeneous system*

14. Suraka Bhattacharyya (2014): *Classical nucleation in Ising ferromagnet in the coalescence regime*

15. Poulami Roy (2014): *Study of classical nucleation in single droplet regime*

16. Arijit Das (2013): *Dynamic phase transition of an Ising ferromagnet: A mean field approach*

17. Nepal Banerjee (2013): *Ferromagnetic phase transition in Ising model studied by Monte Carlo simulation*