**Bio-data of Dr. Mili Das**

1. Name: Dr. Mili Das
2. Designation: Assistant Professor, Department of Physics, Ananda Mohan College, Kolkata-700009
3. Academic Qualifications:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.** | **Degree** | **Institution** | **Year** |
|  | Ph.D. | Saha Institute of Nuclear Physics, CU | 2009 |
|  | M. Phil. | NA | NA |
|  | M. Sc (Physics) | Presidency College, CU | 1998, 69.3% |
|  | B. Sc (Hons. in Physics) | Bangabasi College, CU | 1995, 60.0% |
|  | Diploma/Certificate | NA | NA |

1. Area of Specialization: **Experimental Low-Energy Nuclear Reactions**

(Performed experiments using Accelerators in Tata Institute of Fundamental Research, Mumbai, Inter University Accelerator Centre, New Delhi, Institute of Physics, Bhubaneswar, Variable Energy Cyclotron Centre, Kolkata)

1. Contact Information & Address (Email & Phone Number):

[mili.snowflakes@gmail.com](mailto:mili.snowflakes@gmail.com),

Department of Physics,

Ananda Mohan College,

102/1, Raja Rammohan Sarani,

Kolkata – 700 009

1. Projects Undertaken as PI/ Co PI: NA
2. Awards/ Recognitions if any:

NET : CSIR fellowship in 2000

GATE-98: 74.6 Percentile in 1998

JEST : Qualified in 1998

1. List of 5 major Publications: (in order of importance)

1. “Comparative study of the radius of sensitivity of the optical model potentials

for 6Li+58,64Ni and 16O+58,64Ni”

**Mili Biswas**

Phys. Rev. C 77, 017602 (2008)

2. “The study of threshold behaviour of effective potential for 6Li+58,64Ni systems”

**M. Biswas**, Subinit Roy, M. Sinha, M. K. Pradhan, A. Mukherjee, P. Basu,

H.Majumdar, K. Ramachandran, A. Shrivastava

Nucl. Phys. A 802, 67 (2008)

1. “Threshold behaviour of effective potential for 6,7Li+58,64Ni around the

Coulomb barrier”

**Mili Biswas,** Subinit Roy, M. Sinha, M. K. Pradhan, P. Basu, H. Majumdar, A.

Mukherjee, U. Datta Pramanik, A. Shrivastava, K. Ramachandran

Proceedings of Science (NIC X) 168 (2008)

1. “Sub-barrier fusion excitation for the system 7Li+28Si”

Mandira Sinha, H.Majumdar, P. Basu, Subinit Roy, R. Bhattacharya,

**M.Biswas,** M. K. Pradhan, and S. Kailas

Phys. Rev. C 78, 027601 (2008)

5. “Experimental investigation of fusion of 7Li+28Si above the Coulomb barrier”

Mandira Sinha, H.Majumdar, R. Bhattacharya, P. Basu, Subinit Roy,

**M.Biswas,** R. Palit, I. Mazumdar, P. K. Joshi, H. C. jain, and S. Kailas

Phys. Rev. C 76, 027603 (2007)

1. Additional Information/ Achievements (Membership of Academic Bodies/Editor of Journal/ Member learned society):

Past Employment :

**Assistant Professor** in Department of Physics, Heritage Institute of Technology, Kolkata : September, 2010 – March, 2015

**Post-Doctoral Fellow** in Variable Energy Cyclotron Centre : July, 2009 to September, 2010

Post M. Sc. Course in Saha Institute of Nuclear Physics: 2000-2001

Junior Research Fellow in SINP: 2001-2002

Senior Research Fellow in SINP: 2002-2009

**Member** of Indian Physical Society

**Conferences Attended :**

1. **Workshop on Nuclear Astrophysics** in University of Calcutta, February, 2016

2. **National Conference on Mathematical Trends in Physical Sciences (NCMPTS**

**2014)** in Heritage Institute of Technology, Kolkata, August, 2014

3. **Workshop in Mechanics in Physics** in I.I.T, Kanpur, June, 2014

4. **SLENA (School cum Workshop in Low Energy Nuclear Astrophysics)**

inSINP, Kolkata, 2012 and 2009

5. Presented a poster in **ZAKOPANE Conference on Nuclear Physics,** Poland, 2010

* 1. Delivered a talk in **Colloquium for Young Physicists** in SINP, Kolkata, 2009

7. Presented a poster in **Summer School on Exotic Beam Physics** in Argonne

National Laboratory, United States of America, 2008

8. Presented mythesisin **DAE Symposium on Nuclear Physics** in I.I.T, Roorkee,

2008

9. **SERC School on Nuclear Physics** in Panjab University, Chandigarh in 2002 and in

Variable Energy Cyclotron Centre, Kolkata in 2006

**Computational Experience:**

• LANGUAGE : FORTRAN for Programming

• OPERATING SYSTEM : LINUX, Windows 8.1, XP

10. Full List of Publications: (\* If necessary, please attach separate page)

**List of publications in International Journal**

1. Threshold behavior of interaction potential for the system 7Li+64Ni : Comparison with 6Li+64Ni

Md. Moin Shaikh, **Mili Das**, Subinit Roy, M. Sinha, M.K. Pradhan, P. Basu, U. Datta, K. Ramachandran, A. Shrivastava

Nuclear Physics A 953 (2016) 80-94

2. Search for rotational state of Hoyle state in complete kinematic experiment 12C(α, α′) 3α

T. K. Ranaa, C. Bhattacharya, S. Bhattacharya, S. Kundu, K. Banerjee, T. K. Ghosh, G. Mukherjee, R. Pandey, M. Gohil, A. Dey, J. K. Meena, G. Prajapati, P. Roy, H. Pai and **M. Biswas**

EPJ Web of Conferences 66, 03010 (2014)[**http://dx.doi.org/10.1051/epjconf/20146603010**](http://dx.doi.org/10.1051/epjconf/20146603010)

3. Study of the 1p transfer channel in the 12C+27Al reaction at 6-7 MeV per nucleon

Aparajita Dey, S. Kundu, T.K. Rana, K. Banerjee, C. Bhattacharya, **M. Biswas,** T. K. Ghosh, H. Pai, G. Mukherjee, J. K. Meena, D. Gupta, S. Bhattacharya, S. Mukhopadhyay, D. Pandit, S.R. Banerjee, Suresh Kumar, A. Chatterjee, K. Ramachandran, K. Mahata, S. Santra and S. Pandit

Physica Scripta T150, 014011 (2012)

4. Cluster emission in 13C+12C and 12C+12C reactions at ~6 MeV/nucleon,

T. K. Rana et al.,

International Journal of Modern Physics E 20, Issue 4, 789 (2011)

5. Sub and above-barrier fusion of loosely bound 6Li with 28Si

Mandira Sinha, H.Majumdar, P. Basu, Subinit Roy, R. Bhattacharya, **M. Biswas,** M.

K. Pradhan, R. Palit, I. Mazumdar and S. Kailas

The European Physical Journal A 44, 403 (2010)

6. The study of threshold behaviour of effective potential for 6Li+58,64Ni systems

**M. Biswas,** Subinit Roy, M. Sinha, M. K. Pradhan, A. Mukherjee, P. Basu,

H.Majumdar, K. Ramachandran, A. Shrivastava

Nucl. Phys. A 802, 67 (2008)

7. Comparative study of the radius of sensitivity of the optical model potentials for 6Li+58,64Ni and 16O+58,64Ni

**Mili Biswas**

Phys. Rev. C 77, 017602 (2008)

8. Sub-barrier fusion excitation for the system 7Li+28Si

Mandira Sinha, H.Majumdar, P. Basu, Subinit Roy, R. Bhattacharya,

**M. Biswas,** M. K. Pradhan, and S. Kailas

Phys. Rev. C 78, 027601 (2008)

9. Experimental investigation of fusion of 7Li+28Si above the Coulomb barrier

Mandira Sinha, H.Majumdar, R. Bhattacharya, P. Basu, Subinit Roy,

**M. Biswas,** R. Palit, I. Mazumdar, P. K. Joshi, H. C. jain, and S. Kailas

Phys. Rev. C 76, 027603 (2007)

10. Reaction mechanisms with loosely bound nuclei 7Li+6Li at forward angles

in the incident energy range 14-20 MeV

S. Adhikari, C. Samanta, C. Basu, B. J. Roy, S. Ray, A. Shrivastava, K.

Ramachandran, V. Tripathi, K. Mahata, V. Jha. P. Sukla, S. Rathi, **M. Biswas,**

P. Roychowdhury, A. Chatterjee, and S. Kailas

Phys. Rev. C 74, 024602 (2006)

**List of publications in conference proceedings**

11. Structure and decay mechanism of Hoyle State

T. K. Rana, S. Bhattacharya, C. Bhattacharya, S. Kundu, K. Banerjee,

G. Mukherjee, J. K. Meena, R. Pandey, M. Gohil, H. Pai, A. Dey, T.

K. Ghosh, **M. Biswas,** G. Prajapati

DAE Proceedings, (2011)

12. Three decays of Hoyle state of 12C in 12C+12C reaction,

T. K. Rana, et al.,

DAE Proceedings, Vol.55,230 (2010)

13. Above barrier fusion excitation of 6Li+28Si

Mandira Sinha, H.Majumdar, P. Basu, Subinit Roy, R. Bhattacharya,

M. K. Pradhan, **M. Biswas,** R. Palit, I. Mazumdar, and S. Kailas

DAE Proceedings, Vol.54, 306(2009)

14. Isoscaling in 13C+12C and 12C+12C reactions at ~ 6 MeV/u

T. K. Rana, C. Bhattacharya, S. Kundu, K. Banerjee, S. Bhattacharya, G.

Mukherjee, T. K. Ghosh, J. K. Meena, P. Dhara, **M. Biswas,** H. Pai, K. Mahata,

Suresh Kumar, K. Ramachandran, P. C. Rout, S. K. Pandit, V. Nanal and R. G.

Pillay

DAE Proceedings, Vol.54, 388 (2009)

15. Measurement of near and above barrier fusion excitations for 7Li+28Si

H. Majumdar, Mandira Sinha, P. Basu, R. Bhattacharya, Subinit Roy, S.

Santra, **M. Biswas,** V. V. Parkar, B. R. Behera, K. S. Golda, S. K. Datta, and S.

Kailas

INPC Proceedings, Nucl. Phys. A 805, 425 (2008)

16. Investigation of Near and Sub-barrier Fusion of 7Li+28Si

H.Majumdar, Mandira Sinha, **M. Biswas,** M. K. Pradhan, Subinit Roy, P.

Basu, R. Bhattacharya, and S. Kailas

DAE Proceedings, Vol.52, 309 (2007)

17. Threshold behaviour of interaction potential for 6Li+64Ni around the Coulomb

barrier energies

**M. Biswas,** M. Sinha, M. Pradhan, P. Basu, H. Majumdar, A. Mukherjee,

Subinit Roy, K. Ramachandran and A. Shrivastava

DAE Proceedings, Vol.51, 397 (2006)

18. Fusion Cross Sections for 6Li+24Mg at energies around the barrier

Maitreyi Ray, M. K. Pradhan, R. Kshetri, A. Mukherjee, M. Saha Sarkar, M.

Sinha, **M. Biswas,** S. Roy, P. Basu, H. Majumdar, R. Palit, I. Mazumdar, P. K.

Joshi, H. C. Jain, and B. Dasmahapatra

DAE Proceedings, Vol.51, 411 (2006)

19. Measurement of Fusion cross-section from evaporation α-spectra for the

system 7Li+28Si

Mandira Sinha, **M. Biswas,** M. K. Pradhan, V. V. Parkar, H. Majumdar, R.

Bhattacharya, P. Basu, Subinit Roy, A. Mukherjee, S. Santra, B. R. Behera, K.

S. Golda, S. K. Datta, and S. Kailas

DAE Proceedings, Vol.51, 433 (2006)

20. An investigation of the interaction potential for 6Li+64Ni system at near

barrier energies

**Mili Biswas,** M. Sinha, A. Mukherjee, H. Majumdar, P. Basu, Subinit Roy, A.

Navin and A. Shrivastava

DAE Proceedings, Vol.50, 307 (2005)

21. Fusion Cross Sections for 6Li+27Al at energies above the barrier

Maitreyi Ray, A. Mukherjee, M. Saha Sarkar, M. Sinha, **M. Biswas,** S. Roy,

P. Basu, H. Majumdar, R. Palit, I. Mazumdar, P. K. Joshi, H. C. Jain, and B.

Dasmahapatra

DAE Proceedings, Vol.50, 306 (2005)

22. Investigation of elastic scattering with loosely bound nuclei 6,7Li

Mandira Sinha, **M. Biswas**, A. Mukherjee, S. Roy, P. Basu, H. Majumdar , R.

Bhattacharya, B. R. Behera, K.S. Golda, S. K. Datta and S. Kailas

DAE Proceedings, Vol.50, 304 (2005)

23. Investigation of Near Barrier Fusion of 6,7Li+28Si

Mandira Sinha, **Mili Biswas**, A. Mukherjee, Subinit Roy, P. Basu, H. Majumdar, B. Dasmahapatra, R. Bhattacharya, P. K. Joshi, R. Palit, I. Mazumdar, H. C. Jain, A. Shrivastava, S. Kailas

DAE Proceedings, Vol.47B, 268 (2004)

24. A study of elastic and a-angular distributions for 6Li+64Ni system at ELab=15

MeV

**Mili Biswas,** M. Sinha, A. Mukherjee, P. Basu, H. Majumdar, Subinit Roy, A.

Shrivastava and A. Navin

DAE Proceedings, Vol.47B, 272 (2004)

25. Li-induced reactions with light mass targets

M. Ray, A. Mukherjee, M. Saha Sarkar, M. Sinha, **M. Biswas,** Subinit Roy, P.

Basu, H. Majumdar, R. Palit, I. Mazumdar, P. K. Joshi, H. C. Jain and B.

Dasmahapatra

DAE Proceedings, Vol.47B, 312 (2004)

26. Observation of fusion suppression in a-particle spectrum emitted from

loosely bound 6,7Li+6Li reaction

S. Adhikari, C. Samanta, C. Basu, **M. Biswas,** S. Ray, A. Chatterjee, V.

Tripathi, K. Ramachandran, K. Mahata, S. Kailas

DAE Proceedings, Vol.46B, 188 (2003)

27. A systematic Description Of elastic Scattering Of 6,7Li+12C And 9Be+12C

At Near Barrier Energies

**Mili Biswas,** R. Bhattacharya, Subinit Roy

DAE Proceedings, Vol.46B, 272 (2003)

28. A microscopic complex potential description of elastic proton scattering from

A=11 nuclei

**Mili Biswas,** R. Bhattacharya, Subinit Roy

DAE Proceedings, Vol.45B, 278 (2002)

Date:16-07-2016

Place: Kolkata

A description...

Signature