

Curriculum Vitae

Personal Information:

Name: KIRONMOY MANDAL
Official Designation: ASSISTANT PROFESSOR OF PHYSICS
Official Address: Department of Physics, Chandidas Mahavidyalaya,
Khujutipara, Birbhum, West Bengal -731215



Date of Birth: 3rd April, 1990

Contact Details: Mobile-[9735340332](tel:9735340332)
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Academic Information:

Program	Specialization	Institution	Year of completion
Madhyamic Exam	All subject	WBBSE	2005
Pre-degree Exam	Phy, Chem, Math, Bio, Beng, Eng	Visvs-Bharati	2007
Physics (Honours)	Physics (H), Math, Chemistry	University of Kalyani	2010
Master in Physics	Physics (Specialization in Astrophysics)	West Bengal State University	2012

Scholastic Achievements:

- Qualified in the GATE examination in 2012 with a GATE score of 256.
- Qualified for the UGC-CSIR NET examination in December 2013.

Employment Information:

Post	Institution/Organization	Period
Guest Faculty	Derizio Memorial College	From 2014 to 2015
Assistant Professor	Chandidas Mahavidyalaya	From 1 st April, 2017 to till date.

Refresher / Orientation Course Attended:

Sl. No.	Name of the Course	Theme of the Course	Date	Organised by
1.	UGC Sponsored online Faculty Induction Programme (OP)	Faculty Induction Programme (Online)	17-07-2021 to 24-08-2021	UGC-HRDC Aligarh Muslim University, Aligarh
2.	UGC Sponsored online Refresher Course	Human Rights (open to all)	20-07-2022 to 02-08-2022	UGC-HRDC Aligarh Muslim University, Aligarh

List of Publications

Refereed Journal:

1. *Alignment effects in the medium-spin level structure of $^{78}\text{Se}^{**}$*
K. Mandal, A. Chakraborty, A. K. Mondal, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, B. Mukherjee, S. Rai, S. Chatterjee, S. K. Das, S. Samanta, R. Raut, S. S. Ghugre, S. Bhattacharyya, S. Nandi, S. Bhattacharya, G. Mukherjee, S. Ali, A. Goswami, S. Mukhopadhyay, Krishichayan, R. Banik, R. Chakrabarti, V. Kumar, and A. Kumar
Phys. Rev. C **105**, 034328 (2022).
<https://doi.org/10.1103/PhysRevC.105.034328>
2. *Probing the low-lying level structure of ^{94}Zr through β^- decay***
K. Mandal, A. K. Mondal, A. Chakraborty, E.E. Peters, B.P. Crider, C. Andreoiu, P.C. Bender, D.S. Cross, G.A. Demand, A.B. Garnsworthy, P.E. Garrett, G. Hackman, B. Hadinia, S. Ketelhut, Ajay Kumar, K.G. Leach, M.T. McEllistrem, J. Pore, F.M. Prados-Estévez, E.T. Rand, B. Singh, E.R. Tardiff, Z.-M. Wang, J.L. Wood, and S.W. Yates
IJPAP Vol. 58, 223-227 (2020).
<http://op.niscpr.res.in/index.php/IJPAP/article/view/67594>
3. *Evidence for competing bi-faceted compound nucleus fission modes in $^{232}\text{Th}(\alpha, f)$ reaction*
Aniruddha Dey, D. C. Biswas, A. Chakraborty, S. Mukhopadhyay, **K. Mandal**, A. K. Mondal, B. Mukherjee, R. Chakrabarti, B. N. Joshi, L. A. Kinage, S. Chatterjee, S. Samanta, S. Das, Soumik Bhattacharya, R. Banik, S. Nandi, Shabir Dar, R. Raut, G. Mukherjee, S. Bhattacharyya, S. S. Ghugre, and A. Goswami
Phys. Lett. B **825**, 136848 (2022).
<https://doi.org/10.1016/j.physletb.2021.136848>
4. *Investigation of different possible excitation modes in neutron-rich ^{78}As*
A. K. Mondal, A. Chakraborty, **K. Mandal**, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, B. Mukherjee, S. Rai, Krishichayan, S. Chatterjee, S. K. Das, S. Samanta, R. Raut, S. S. Ghugre, S. Rajbanshi, R. Banik, S. Bhattacharyya, S. Nandi, S. Bhattacharya, G. Mukherjee, S. Ali, A. Goswami, R. Chakrabarti, S. Mukhopadhyay, A. K. Sinha, V. Kumar, and A. Kumar
Phys. Rev. C **102**, 064311 (2020).
<https://doi.org/10.1103/PhysRevC.102.064311>

5. *Evolution of collectivity and shape transition in ^{66}Zn*
 S. Rai, U. S. Ghosh, B. Mukherjee, A. Biswas, A. Chakraborty, A.K. Mondal, **K. Mandal**,
 S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar and R.P. Singh
Phys. Rev. C 102, 064313 (2020).
<https://doi.org/10.1103/PhysRevC.102.064313>
6. *Spectroscopic investigation of complex nuclear excitations in ^{66}Ga*
 U. S. Ghosh, S. Rai, B. Mukherjee, A. Biswas, A. Chakraborty, A.K. Mondal, **K. Mandal**,
 S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar and R.P. Singh
Phys. Rev. C 102, 024328 (2020).
<https://doi.org/10.1103/PhysRevC.102.024328>
7. *In-beam spectroscopic study of ^{63}Zn*
 U. S. Ghosh, S. Rai, B. Mukherjee, A. Biswas, A. Chakraborty, A.K. Mondal, **K. Mandal**,
 S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar and R.P. Singh
Phys. Rev. C 100, 034314 (2019).
<https://doi.org/10.1103/PhysRevC.100.034314>
8. *High spin states in ^{63}Cu*
 S. Rai, U. S. Ghosh, B. Mukherjee, A. Biswas, A. Chakraborty, A.K. Mondal, **K. Mandal**,
 S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar and R.P. Singh
Eur. Phys. J. A 54, 84 (2018).
<https://doi.org/10.1140/epja/i2018-12518-2>

Manuscript under preparation:

1. *Investigation of Low-lying Level Structure of ^{94}Zr*
K. Mandal *et al.*

International and National Conference/Symposium papers:

1. *Identification of collective proton excitations in $^{94}\text{Zr}^{**}$*
K. Mandal, A. K. Mondal, A. Chakraborty, E.E. Peters, B.P. Crider, C. Andreoiu, P.C. Bender, D.S. Cross, G.A. Demand, A.B. Garnsworthy, P.E. Garrett, G. Hackman, B. Hadinia, S. Ketelhut, Ajay Kumar, K.G. Leach, M.T. McEllistrem, J. Pore, F.M. Prados-Estévez, E.T. Rand, B. Singh, E.R. Tardiff, Z.-M. Wang, J.L. Wood, and S.W. Yates
Proceedings of DAE-BRNS Symp. on Nuclear Physics, Vol. 60, 264 (2015); Prasanthi Nilayam, India.
<http://sympnp.org/proceedings/60>

2. *Probing the Low-lying Level Structure of ^{94}Zr Using β^- decay***
K. Mandal, A. K. Mondal, A. Chakraborty, E.E. Peters, B.P. Crider, C. Andreoiu, P.C. Bender, D.S. Cross, G.A. Demand, A.B. Garnsworthy, P.E. Garrett, G. Hackman, B. Hadinia, S. Ketelhut, Ajay Kumar, K.G. Leach, M.T. McEllistrem, J. Pore, F.M. Prados-Estévez, E.T. Rand, B. Singh, E.R. Tardiff, Z.-M. Wang, J.L. Wood, and S.W. Yates
Proceedings of DAE-BRNS Symp. on Nuclear Physics, Vol. 62, 230 (2017); Patiala, India.
<http://sympnp.org/proceedings/62>
3. *Investigation of the medium-spin level structure of $^{78}\text{Se}^{**}$*
K. Mandal, A. K. Mondal, A. Chakraborty, S. Ali, R. Banik, S. Bhattacharya, S. Bhattacharyya, D. C. Biswas, S. Biswas, S. Chattarjee, S. K. Das, A. Dey, U. S. Ghosh, S. S. Ghugre, A. Goswami, Krishichayan, A. Kumar, V. Kumar, B. Mukherjee, G. Mukherjee, S. Mukhopadhyay, S. Nandi, S. Rai, R. Raut, and S. Samanta
Proceedings of DAE Symp. on Nuclear Physics, Vol. 63, 274 (2018); BARC, India.
<http://sympnp.org/proceedings/63>
4. *Yrast Spectroscopy of ^{77}As*
A.K. Mondal, A. Chakraborty, **K. Mandal**, U.S. Ghosh, Aniruddha Dey, S. Biswas, B. Mukherjee, Krishichayan, S. Mukhopadhyay, S. Chatterjee, S.K. Das, S. Samanta, R. Raut, S.S. Ghugre, S. Rajbanshi, R. Banik, S. Bhattacharyya, S. Nandi, S. Bhattacharya, G. Mukherjee, S. Ali, A. Goswami, R. Chakrabarti, A. Kumar, and R. Goswami
Proceedings of DAE Symp. on Nuclear Physics, Vol. 66, 104 (2022); Guwahati, India.
<http://sympnp.org/proceedings/66>
5. *Re-investigation of some low and medium-spin level structure in ^{67}Ga*
U. S. Ghosh, S. Rai, B. Mukherjee, A. K. Mondal, **K. Mandal**, S. Barman, A. Goswami, S. Biswas, A. Chakraborty, G. Mukherjee, S. Chakraborty, A. Sharma, I. Bala, S. Muralithar, R. P. Singh
Proceedings of DAE Symp. on Nuclear Physics, Vol. 66, 144 (2022); Guwahati, India.
<http://sympnp.org/proceedings/66>
6. *Delving deep into the multi-faceted fission modes through fission fragment spectroscopy*
Aniruddha Dey, D. C. Biswas, A. Chakraborty, S. Mukhopadhyay, A. K. Mondal, **K. Mandal**, B. Mukherjee, R. Chakrabarti, B. N. Joshi, L. A. Kinage, S. Chatterjee, S. Samanta, S. Das, Soumik Bhattacharya, R. Banik, S. Nandi, Shabir Dar, R. Raut, G. Mukherjee, S. Bhattacharyya, S. S. Ghugre, and A. Goswami
Proceedings of DAE Symp. on Nuclear Physics, Vol. 65, 32 (2021); BARC, India.
<http://sympnp.org/proceedings/65>

7. *High-K states and band structures in Yb isotopes*
Saket Suman, S. K. Tandel, S. G. Wahid, Poulomi Roy, A. Chakraborty, **K. Mandal**, A.K. Mondal, G. Mukherjee, S. Bhattacharyya, Soumik Bhattacharya, R. Banik, S. Nandi, Shabir Dar, A. Asgar, S. Samanta, S. Das, S. Chatterjee, R. Raut, S. S. Ghugre, A. Sharma, Sajad Ali, and P. Chowdhury
Proceedings of the DAE Symp. on Nuclear Physics, Vol. 64, 226 (2019); Lucknow, India.
<http://sympnp.org/proceedings/64>
8. *In-beam γ -ray spectroscopy of ^{63}Zn*
U. S. Ghosh, S. Rai, B. Mukherjee, A. Biswas, A. Chakraborty, A.K. Mondal, **K. Mandal**, S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar and R.P. Singh.
Proceedings of DAE Symp. on Nuclear Physics, Vol. 63, 130 (2018); BARC, India.
<http://sympnp.org/proceedings/63>
9. *In-beam γ -ray spectroscopy of ^{66}Zn*
S. Rai, B. Mukherjee, U. S. Ghosh, A. Biswas, A. Chakraborty, A.K. Mondal, **K. Mandal**, S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar and R.P. Singh.
Proceedings of DAE Symp. on Nuclear Physics, Vol. 63, 240 (2018); BARC, India.
<http://sympnp.org/proceedings/63>
10. *Isotopic yield and mass distributions of neutron-rich fragment nuclei produced in α induced fission of ^{232}Th*
Aniruddha Dey, S. Mukhopadhyay, D. C. Biswas, A. Chakraborty, A. K. Mondal, **K. Mandal**, B. N. Joshi, S. Chatterjee, S. Samanta, S. Das, Soumik Bhattacharya, R. Banik, S. Nandi, R. Raut, G. Mukherjee, S. Bhattacharyya, S. S. Ghugre, and A. Goswami
Proceedings of DAE Symp. on Nuclear Physics, Vol. 63, 268 (2018); BARC, India.
<http://sympnp.org/proceedings/63>
11. *In-beam γ -ray spectroscopy of $^{63,64}\text{Cu}$*
S. Rai, B. Mukherjee, A. Biswas, U. S. Ghosh, A. Chakraborty, A. Mondal, **K. Mandal**, S. Chakraborty, A. Sharma, G. Mukherjee, I. Bala, S. Muralithar and R. P. Singh
Proceedings of the DAE Symp. on Nuclear Physics, Vol. 61, 240 (2016); Kolkata, India.
<http://sympnp.org/proceedings/61>

Conferences and Symposia attended:

1. “60th DAE-BRNS Symposium on Nuclear Physics”, sponsored by Board of Research in Nuclear Sciences, organized at Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam-515134, A.P., India from 7th to 11th December, 2015.

Type of presentation: Poster presentation

2. “International Conference on Advancement in Science & Technology (ICAST-2018)”, organized by Indian JSPS Alumni Association in association with Department of Physics, Visva-Bharati from 3rd to 4th September, 2018.

Type of presentation: Poster presentation

3. “63th DAE-BRNS Symposium on Nuclear Physics”, sponsored by Board of Research in Nuclear Sciences, organized at BARC, India from 10th to 14th December, 2018.

Type of presentation: Poster presentation

4. “International Conference on Recent Issues in Nuclear and Particle Physics (RINP2)”, organized by Department of Physics, Visva-Bharati from 3rd to 5th February, 2019.

Type of presentation: Poster presentation

5. “International Conference on New Frontiers in Nuclear Physics (ICNFNP 2019)”, organized by Department of Physics, Banaras Hindu University, Varanasi, Uttar Pradesh, India from 14th to 17th October, 2019.

Type of presentation: Poster presentation