



**School of Physics**  
**University of Hyderabad**  
**Faculty Details**

Title	Prof.	Rukmani	Mohanta	
Designation	Professor			
Department	School of Physics			
Address (Campus)	School of Physics University of Hyderabad, Hyderabad - 500046			
(Residence)	Westend Apartments, Masjid Banda, Kondapur, Hyderabad - 500084			
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Webpage	<a href="https://sites.google.com/view/rukmani-mohanta/home">https://sites.google.com/view/rukmani-mohanta/home</a>			
Education				
Subject	Institution	Year	Details	
Physics	Utkal University, Bhubaneswar	1997	Ph.D. (Physics)	
Physics	Utkal University	1997-1998	CSIR-RA	
Physics	Panjab University, Chandigarh	1998-2000	CSIR-RA	
<b>Career Profile</b>				
Organization/Institution	Designation	Duration	Role	
University of Hyderabad	Lecturer	2000-2009	Teaching and Research	
University of Hyderabad	Reader/Associate Professor	2009-2015	Teaching and Research	
University of Hyderabad	Professor	2015-Till date	Teaching and Research	
<b>Research Interests / Specialization</b>				
Flavour Physics and CP Violation Neutrino Physics (Theory and Experiment) Physics Beyond the Standard Model and Model Building Dark Matter Phenomenology				
<b>Teaching Experience ( Subjects/Courses Taught)</b>				

- Advanced Quantum Mechanics (Ph.D)
- Advanced Electromagnetic Theory (Ph.D)
- Advanced Mathematical Methods (Ph.D)
- Quantum Mechanics (M.Sc)
- Statistical Mechanics (M.Sc)
- Advanced Statistical Mechanics (M.Sc)
- Electromagnetic Theory I and II (M.Sc)
- Introduction to Particle Physics (M.Sc)
- Advanced Particle Physics (M.Sc)
- Quantum Field Theory (M.Sc)
- Lie Groups and Lie Algebra (M.Sc)
- Nuclear Physics (M.Sc)
- Numerical Techniques Lab (M.Sc)
- Laser Physics Laboratory (M.Sc)
- Microwave Laboratory (M.Sc)
- Relativity and Quantum Physics (I.M.Sc)
- Quantum Physics (I.M.Sc)
- Mathematical Methods (I.M.Sc)

**Distinctions earned like National and International Awards, Honours, Professional Societies:**

- India Top cited author award (2019)
- Indo-US Science and Technology Forum (IUSSTF) Award (Rukmani Mohanta (Hyderabad University) and Rafael Lang (Purdue University)) for supporting Indo-US Bilateral Workshop on “Understanding the origin of Invisible sector: From Neutrinos to Dark Matter and Dark Energy” (2016).
- Indo -US Science and Technology Forum ( IUSSTF) Project Award (Rukmani Mohanta (Hyderabad University) and Jennifer Raaf (Fermilab)) on “Liquid Argon Time Projection Chamber” (2014).
- OWSD (Organisation of Women in Science for the Developing World) Young Women Scientist Award for Physics/Mathematics for the Asia and Pacific Region, (2011).
- Ramanna Fellowship for Excellence in Research by Department of Science and Technology, Government of India, (2008).
- Kavli Frontier of Science Fellow, National Academy of Sciences, USA.

**Publications (LAST FIVE YEARS)**

**In Indexed/ Peer Reviewed Journals**

1. Mitesh K. Behera, S. Mishra, S. Singirala, **Rukmani Mohanta**, *Implications of  $A_4$  modular symmetry on neutrino mass, mixing and leptogenesis with linear seesaw*, to appear in *Physics of Dark Universe* (2022)
2. Mitesh Kumar Behera, **Rukmani Mohanta**, *Linear seesaw in  $A'_5$  modular symmetry with Leptogenesis*, To appear in *Frontiers in Physics* (2022).
3. Mitesh Kumar Behera, **Rukmani Mohanta**, *Inverse seesaw in  $A'_5$  modular symmetry*, *J. Phys. G* **49**, 045001 (2022).
4. S. Singirala, S. Sahoo and **Rukmani Mohanta**, *Light dark matter, rare B decays with missing energy in  $L_\mu - L_\tau$  model with scalar Leptoquark*, *Phys. Rev. D* **105**, 015033 (2022).
5. Mitesh K. Behera, S. Singirala, S. Mishra and **Rukmani Mohanta**, *A modular  $A_4$  scotogenic model for neutrino mass and dark matter* *J. Phys. G* **49**, 035002 (2022).
6. A. Abed Abud,...**R. Mohanta**,...et al., [DUNE Collaboration], *Design, construction and operation of the proto DUNE-SP Liquid Argon TPC*, *Journ. Instrumentation* **17**, P01005 (2022).
7. Monojit Ghosh and **Rukmani Mohanta**, *Updated sensitivity of DUNE in 3+1 scenario with far and near detectors*, *Eur. Phys. J. ST* **231**, 137 (2022).
8. Rudra Majhi, Dinesh K. Singha, K.N. Deepthi and **Rukmani Mohanta**, *Constraining CPT violation with Hyper-Kamiokande and ESSnuSB*, *Phys. Rev. D* **104**, 055002 (2021).
9. Aishwarya Bhatta and **Rukmani Mohanta**, *Implications of new Physics in  $B \rightarrow K_1 \mu^+ \mu^-$  decay processes*, *J. Phys. G* **48**, 085011 (2021).
10. Suman Kumbhakar, **Rukmani Mohanta**, *Investigating the effect of  $U_1$  leptoquark on  $b \rightarrow u \tau \nu$  mediated B decays*, *J. Phys. G* **48**, 075006 (2021).
11. Aishwarya Bhatta, Atasi Ray and **Rukmani Mohanta**, *Exploring the role of new physics in  $b \rightarrow u \tau \nu$  decays*, *Prog. Theor. Expt. Physics* **2021**, 073B04 (2021).
12. M. A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Search for active-sterile antineutrino mixing using neutral-current interaction with the NOvA experiment*, *Phys. Rev. Lett.* **127**, 201801 (2021).
13. A. Abed Abud, ... **R. Mohanta**,... et al, [DUNE Collaboration], *Searching for Solar KDAR with DUNE*, *JCAP* **10**, 065 (2021).
14. A. Abed Abud,...**R. Mohanta**,...et al., [DUNE Collaboration], *Deep Underground Neutrino Experiment (DUNE) Near Detector Conceptual Design Report*, *Instruments* **5**, 31 (2021).
15. M. A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Extended search for supernova like neutrinos in NOvA coincident with LIGO/Virgo detections*, *Phys. Rev. D* **104**, 063024 (2021).
16. M.A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Seasonal variation of multi-muon cosmic ray air showers observed in the NOvA detector on the surface*, *Phys. Rev. D* **104**, 012014 (2021).
17. M.A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Search for slow magnetic monopoles with NOvA detector on the surface*, *Phys. Rev. D* **103**, 012007 (2021).
18. B. Abi, ...**R. Mohanta**,...et al, [DUNE Collaboration], *Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment*, *Eur. Phys. J. C* **81**, 322 (2021).
19. B. Abi, ....**R. Mohanta**,...et al, [DUNE Collaboration], *Supernova neutrino burst detection with the Deep Underground Neutrino Experiment*, *Euro. Phys. J. C* **81**, 423 (2021).

20. P. S. B. Dev, **R. Mohanta**, S. Patra, S. Sahoo, *Unified explanation of flavor anomalies, radiative neutrino masses, and ANITA anomalous events in a vector leptoquark model*, Phys. Rev. D **102**, 095012 (2020).
21. S. Mishra, M. Behera, **R. Mohanta**, S. Patra, *Neutrino Phenomenology and Dark matter in an  $A_4$  flavour extended  $B - L$  model*, Euro. Phys. J. C **80**, 420 (2020).
22. Rudra Majhi, Soumya C and **Rukmani Mohanta**, *Exploring the effect of Lorentz invariance violation with the currently running long-baseline experiments*, Euro. Phys. J. C **80**, 364 (2020).
23. R. Majhi, Soumya C and **R. Mohanta**, *Light sterile neutrinos and their implications on currently running long-baseline and neutrinoless double beta decay experiments*, Jour. Phys. G **47**, 095002 (2020).
24. B. Abi,...**R. Mohanta**,... et al, [DUNE Collaboration], *First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform*, Journ. Instrumentation **15**, P12004 (2020).
25. B. Abi,...**R. Mohanta**,... et al, [DUNE Collaboration], *Neutrino interaction classification with a convolutional neural network in the DUNE far detector*, Phys. Rev. D **102**, 092003 (2020).
26. B. Abi,...**R. Mohanta**,... et al, [DUNE Collaboration], *Long-baseline neutrino oscillation physics potential of the DUNE experiment*, Euro. Phys. J C **80**, 978 (2020).
27. M. A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Adjusting neutrino interaction models and evaluating uncertainties using NOvA near detector data*, Euro. Phys. J. C **80**, 1119 (2020).
28. M. A. Acero, ... **R. Mohanta**,... et al, [NOvA Collaboration], *Supernova neutrino detection in NOvA* JCAP **2010**, 014 (2020).
29. B. Abi,...**R. Mohanta**,... et al, [DUNE Collaboration], *Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume IV: Far Detector Single-phase Technology*, Journ. Instrumentation **15**, 08, T08010 (2020).
30. B. Abi,...**R. Mohanta**,... et al, [DUNE Collaboration], *Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume III: DUNE Far Detector Technical Coordination*, Journ. Instrumentation **15**, 08, T08009 (2020).
31. B. Abi,...**R. Mohanta**,... et al, [DUNE Collaboration], *Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume I: Introduction to DUNE*, Journ. Instrumentation **15**, 08, T08008 (2020).
32. M. A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Search for multimessenger signals in NOvA coincident with LIGO/Virgo detections*, Phys. Rev. D **101**, 112006 (2020).
33. M. A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Measurement of neutrino-induced neutral-current coherent  $\pi^0$  production in the NOvA near detector*, Phys. Rev. D **102**, 012004 (2020).
34. Atasi Ray, S. Sahoo, **R. Mohanta**, *Model independent analysis of  $B^* \rightarrow P l \nu$  decay processes*, Eur. Phys. J. C **79**, 670 (2019).
35. S. Singirala, S. Sahoo, **R. Mohanta**, *Exploring dark matter, neutrino mass and  $R_{K^*,\phi}$  anomalies in  $L_\mu - L_\tau$  model*, Phys. Rev. D **99**, 035042 (2019).
36. A. Ray, S. Sahoo, **R. Mohanta**, *Probing new physics in semileptonic  $\Lambda_b$  decays*, Phys. Rev. D **99**, 015015 (2019).

37. M. A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *First Measurement of Neutrino Oscillation Parameters using Neutrinos and Antineutrinos by NOvA*, Phys. Rev. Lett. **123**, 151803 (2019).
38. M.A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Observation of seasonal variation of atmospheric multiple-muon events in the NOvA Near Detector*, Phys. Rev. D **99**, 122004 (2019).
39. S. Singirala, **Rukmani Mohanta**, S. Patra, Soumya Rao, *Majorana Dark Matter in a new B – L model*, JCAP **1811**, 026 (2018).
40. S Singirala, **Rukmani Mohanta**, S. Patra, *Singlet scalar Dark matter in  $U(1)_{B-L}$  models without right-handed neutrinos*, Eur. Phys. J. Plus **133**, 477 (2018).
41. Suchismita Sahoo, **Rukmani Mohanta**, *Impact of vector leptoquark on  $B \rightarrow K^* l^+ l^-$  anomalies*, J. Phys. G **45**, 085003 (2018).
42. M. Sruthilaya, **Rukmani Mohanta**, Sudhanwa Patra,  *$A_4$  realization of Linear Seesaw and Neutrino Phenomenology*, Eur. Phys. J. C **78**, 719 (2018).
43. Soumya C, **Rukmani Mohanta**, *Non-unitary lepton mixing in an inverse seesaw and its impact on the physics potential of long-baseline experiments*, J. Phys. G **45**, 095003 (2018).
44. M. Sruthilaya, **Rukmani Mohanta**, S. Patra, *Neutrino Mass and Neutrinoless double beta decay in  $SO(10)$  GUT with Pati-Salam symmetry*, J. Phys. G **45** 075004 (2018).
45. M. A. Acero, ....**R. Mohanta**,...et al, [NOvA Collaboration], *New constraints on oscillation parameters from  $\nu_e$  appearance and  $\nu_\mu$  disappearance in the NOvA experiment*, Phys. Rev. D **98**, 032012 (2018).
46. Suchismita Sahoo, Atasi Ray, **Rukmani Mohanta**, *Model independent investigation of rare semileptonic  $b \rightarrow ulv$  decay processes*, Phys. Rev. D **96**, 115017 (2017).
47. Suchismita Sahoo, **Rukmani Mohanta**, Anjan Giri, *Explaining the  $R_K$  and  $R_D^{(*)}$  anomalies with vector leptoquarks*, Phys. Rev. D **95**, 035027 (2017).
48. S. Sahoo, **Rukmani Mohanta**, *New physics effects in charm meson decays involving  $c \rightarrow ul^+ l^- (l_i \neq l_j^\pm)$  transitions*, Eur. Phys. J. C **77**, 344 (2017).
49. Sruthilaya M., **R. Mohanta**, *Non-zero  $\vartheta_{13}$  and leptonic CP phase with  $A_4$  Symmetry*, Eur. Phys. J. C **77**, 140 (2017).
50. Murugeswaran Duraisamy, Suchismita Sahoo, **Rukmani Mohanta**, *Rare semileptonic  $B \rightarrow K(\pi) l_i^\pm l_j^\mp$  decay in vector leptoquark model*, Phys. Rev. D **95**, 035022 (2017).
51. Suchismita Sahoo, **Rukmani Mohanta**, *Study of the rare decays  $B^* \rightarrow \mu^+ \mu^-$* , J. Phys G **44**, 035001 (2017).
52. Soumya C., **Rukmani Mohanta**, *Impact of lepton flavour universality violation on CP violation sensitivity of long baseline neutrino oscillation experiments*, Eur. Phys. J. C **77**, 32 (2017).
53. P. Adamson, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Search for active-sterile neutrino mixing using neutral-current interactions in NOvA*, Phys. Rev. D **96**, 072006 (2017).
54. P. Adamson, ....**R. Mohanta**,...et al, [NOvA Collaboration], *Constraints on Oscillation Parameters from  $\nu_e$  Appearance and  $\nu_\mu$  Disappearance in NOvA*, Phys. Rev. Lett. **118**, 231801 (2017).

55. P. Adamson, ...**R. Mohanta**,...et al, [NOvA Collaboration], *Measurement of the neutrino mixing angle  $\vartheta_{23}$  in NOvA*, Phys. Rev. Lett. **118**, 151802 (2017).

#### Articles /Book Chapters/Edited Conference Proceedings

- Proceedings, 16<sup>th</sup> Conference on Flavour Physics and CP Violation (FPCP 2018), Anjan Giri and Rukmani Mohanta (Editors), Springer Proceedings in Physics 234, pp 3-493 (2019).
- Proceedings, Workshop on Frontiers in High Energy Physics 2019 (FHEP 2019), Anjan Giri and Rukmani Mohanta (Editors), Springer Proceedings in Physics 248, pp 3-459 (2020).

#### Conference Presentations

1. Atasi Ray, S. Sahoo, **R. Mohanta**, *Model independent analysis of  $B^* \rightarrow Pl\nu$  decay processes*, Springer Proc. Phys. **261**, 11 (2021).
2. S. Sahoo, **R. Mohanta**, A. Giri, *Testing Lepton Nonuniversality in  $b \rightarrow c\tau\nu$  decay mode*, Springer Proc. Phys. **261**, 853 (2021).
3. S. Sahoo, S. Singirala, **R. Mohanta**, *Vector-like Dark Matter and Flavor anomalies with Leptoquarks*, Springer Proc. Phys. **261**, 275 (2021).
4. S. Singirala, S. Sahoo and **Rukmani Mohanta**, *Majorana Dark Matter, Neutrino Mass and Flavor Anomalies in  $L\mu-L\tau$  Model*, Springer Proc. Phys. **261**, 275 (2021).
5. Rudra Majhi, Soumya C and **Rukmani Mohanta**, *Physics Potential of Long-Baseline Neutrino Oscillation Experiments in presence of Sterile Neutrino*, Springer Proc. Phys. **261**, 521 (2021).
6. Mitesh Kumar Behera and **Rukmani Mohanta**, *eV scale sterile neutrinos in  $A_4$  symmetric model*, Springer Proc. Phys. **261**, 963 (2021).
7. Rudra Majhi, Soumya C and **Rukmani Mohanta**, *Lorentz invariance violation and long-baseline experiments*, Springer Proc. Phys. **248**, 349 (2020).
8. S. Mishra, M. Behera, **Rukmani Mohanta**, S. Patra, S. Singirala, *eV scale sterile neutrino and Dark matter phenomenology in  $A_4 \times U(1)_{B-L}$  model*, Springer Proc. Phys. **248**, 289 (2020).
9. Suchismita Sahoo, **Rukmani Mohanta**, *Analysis of  $B \rightarrow D\tau\nu$  decay modes*, Springer Proc. Phys. **248**, 425 (2020).
10. A. Ray, A. Bhatta, **Rukmani Mohanta**, *Effect of new physics in  $B \rightarrow pl\nu$  decay process*, Springer Proc. Phys. **248**, 431 (2020).
11. **R. Mohanta**, S. Singirala, S. Sahoo, *Exploring dark matter, neutrino mass and flavor anomalies in  $L\mu - L\tau$  model*, J. Phys. Conf. Ser. **1468**, 012030 (2020).
12. A. Ray, S. Sahoo, **Rukmani Mohanta**, *Probing New Physics in semileptonic  $\Lambda_b$  decays*, Springer Proc. Phys. **234**, 483 (2019).
13. S. Sahoo, **Rukmani Mohanta**, A. Giri, *Exploring lepton non-universality in  $b \rightarrow cl\nu$  decay modes in light of recent experimental data*, Springer Proc. Phys. **234**, 315 (2019).
14. S. Singirala **Rukmani Mohanta**, S. Patra, S. Rao, *Majorana Dark Matter, Massless Goldstone and Neutrino Mass in a new B-L model*, Springer Proc. Phys. **234**, 463 (2019).
15. R. Majhi, Soumya C and **R. Mohanta**, *Impact of active-sterile neutrino mixing at currently running long-baseline experiments*, Springer Proc. Phys. **234**, 341 (2019).
16. M. Sruthilaya, **Rukmani Mohanta**, Sudhanwa Patra,  *$A_4$  realization of Linear Seesaw and Neutrino Phenomenology*, Springer Proc. Phys. **234**, 365 (2019).
17. Soumya C, **Rukmani Mohanta**, *Impact of Non-unitary neutrino mixing on the physics potential of NOvA experiment*, Springer Proc. Phys. **234**, 359 (2019).

18. M. Sruthilaya, **Rukmani Mohanta**, *Cobimaximal Neutrino mixing with A4 symmetry*, Springer Proc. Phys. **203**, 759 (2018).
19. Soumya C, **Rukmani Mohanta**, *Impact of active-sterile neutrino mixing on physics potential of long baseline neutrino oscillation experiments*, Springer Proc. Phys. **203**, 385 (2018).
20. S. Sahoo, **Rukmani Mohanta**, *Study of  $B_{s,d}^* \rightarrow \mu^+\mu^-$* , Springer Proc. Phys. **203**, 321 (2018).
21. M. John, T. Latham, **Rukmani Mohanta**, *WG5 summary: Direct CP violation in B decays*, PoS CKM2016, 018 (2017).
22. S. Sahoo, **Rukmani Mohanta**, A. Giri, *Impact of leptoquarks in semileptonic B decays*, PoS CKM2016, 145 (2017).

#### Total Publication Profile optional

[https://inspirehep.net/literature?sort=mostrecent&size=25&page=1&q=f%20a%20mohanta%20C%20r&doc\\_type=published](https://inspirehep.net/literature?sort=mostrecent&size=25&page=1&q=f%20a%20mohanta%20C%20r&doc_type=published)

#### Public Service / University Service / Consulting Activity

- School Board Member, School of Physics, University of Hyderabad
- Academic Council Member, University of Hyderabad
- Court Member, University of Hyderabad
- Board of Studies Member. Central University of Karnataka
- Thesis Examiner of Various Universities in India
- Referee of Several Journals: (Physical Review D, Journal of High Energy Physics, Physics Letters B, Nuclear Physics B, Journal of Physics G, Modern Physics Letters A, International Journal of Modern Physics, Advances in High Energy Physics, ...
- Selection Committee Members of several Universities and Institutes
- Chair-HEP Gender group of IPA

#### Professional Societies Memberships

- Life Member, Indian Physics Association
- Life Member, Orissa Physical Society

#### Other Details

**Membership of Editorial Boards of Journals: Nil**

#### Organization of conferences:

- 16<sup>th</sup> International Conference of High Energy Physics (FPCP-2018), at University of Hyderabad (2018).
- Frontiers in High Energy Physics (FHEP-2019) at University of Hyderabad (2019)
- Frontiers in Particle Physics and Cosmology, University of Hyderabad (2019)
- Indo-US Bilateral Workshop on "Understanding the Origin of Invisible sector: From Neutrinos to Dark Matter and Dark Energy" at University of Hyderabad (2016)
- Invisible Matters: Neutrino and Dark Matter at IIT Hyderabad (2019)
- SERB Preparatory School on Theoretical High Energy Physics (2018).
- Workshop on Computational High Energy Physics, University of Hyderabad (2017)
- Frontiers in Physics (FIP-2013), at University of Hyderabad (2013).

Ph.D. students supervised (with full details), viz., Regd.No. Name of the student, title of topic, award date, etc.

Sl No.	Regd. Number & Name of the student	Title of Ph.D. thesis	Ph.D. degree awarded on (date)	Remarks
1	Dr. Barilang Mawlong (05PHPH01)	Some Aspects of Rare B decay and CP Violation	2009	Faculty at Univ. of Hyderabad
2	Dr. K.N. Deepthi (10PHPH04)	Some Aspects of Neutrino Mixing and oscillation	2015	Faculty at Mahindra Univ. Hyderabad
3.	Dr. Soumya C (12PHPH09)	Phenomenological Aspects of Neutrino Oscillation	2017	
4.	Dr. Suchismita Sahoo (13PHPH05)	Phenomenological study of rare semileptonic B meson decays with Leptoquarks	2018	Faculty at Central Univ. of Karnataka
5.	Dr. Sruthilaya M (12PHPH28)	Implications of discrete flavor symmetries on Neutrino mixing	2018	Faculty at Degree college in Kerala
6	Dr. Srinu Gollu (09PHPH10)	Some phenomenological aspects of Neutrino mixing	2018	Faculty at Degree college in AP
7	Dr. S. Singirala (13PHPH12)	Prospects of Dark Matter in Standard Model Extensions	2019	Postdoc at Univ. of Hyderabad
8	Dr. Atasi Ray (16PHPH01)	Impact of New Physics on $b \rightarrow (c, u)lv$ transitions	2021	Project Associate

Ph.D. students pursuing (with full details), viz., Regd.No. Name of the student, title of topic, award date, etc.

Sl No.	Regd. Number & Name of the student	Title of Ph.D. thesis	Ph.D. degree awarded on (date)	Remarks
1	Mr. Rudra Majjhi (17PHPH03)	Exploring Physics beyond the Standard Model with Neutrino Oscillation	2017-2022	Inspire Fellow



2.	Mr. Mitesh Behera (17PHPH02)	Neutrino Mass Matrix	2017-2022	Inspire Fellow
3.	Ms. Aishwarya Bhatta (17PHPH26)	B Physics Phenomenology	2018-2023	Inspire Fellow
4	Mr. Dinesh Kumar Singha (19PHPH03)	Neutrino Physics	2019-2024	PMRF Fellow
5.	Ms. Papia Panda (20PHPH05)	Neutrino Mass Models	2020-2025	PMRF Fellow
6	Ms. Priya Mishra (20PHPH07)	Neutrino Mass Models	2020-2025	PMRF Fellow
7.	Mr. Dhiren Panda (21PHPH29)	Rare B meson decays and CP violation	2022-2027	Project Fellow
8.	Mr. Sambit Kumar Pusty (21PHPH23)	B Physics and CP Violation	2022-2027	Univ. Fellow

**Research Projects COMPLETED:**

Sl No.	Name of the Investigator	Title of the project and duration	Funding Agency	Amount sanctioned (Rs. lakhs)
1	Rukmani Mohanta	B Physics and CP Violation (2002-2005)	DST (Fast Track)	4.32
2	Rukmani Mohanta	Phenomenology of B decays in and beyond the standard model (2006-2009)	DST	8.34
3	Rukmani Mohanta	Flavour Physics and CP Violation (2008-2011)	DST (Ramanna Fellowship)	34.80
4	Rukmani Mohanta	Beyond the Standard Model with B and Neutrino Physics (2011-2015)	CSIR	20.285
5	Rukmani Mohanta	Flavour Physics and CP Violation (2014-2018)	SERB	31.76
6	Rukmani Mohanta	New Physics Prospects in view of recent results from Flavour sector (2018-2021)	SERB	23.82
7	Bindu Bambah (PI) Rukmani Mohanta (Co-PI)	Collaboration of Indian Physicists on Neutrino Projects at Fermilab (2012-2016)	DST	100.4

**Research Projects ONGOING:**

Sl No.	Name of the Investigator	Title of the project and duration	Funding Agency	Amount sanctioned (Rs. lakhs)
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1	Rukmani Mohanta	Understanding the origin of Invisible sector: From Neutrinos to Dark Matter (2020-2023)	IoE, Univ of Hyderabad	51
2	Rukmani Mohanta Bindu Bambah	Indian Institution Fermilab Collaboration on Neutrino Physics	DST	171

**Inter-institutional collaborative projects and grants received: Nil**

Sl No.	Name of the Faculty	All India collaboration	International collaboration	Total grant Received

**List of Patents obtained or applied: Nil**

Sl No	Inventor Name (Faculty)	Title	Filed Year	Patent Application Number & Date	Publication Number & Date (if published)	Patent Number & Grant Date (if granted)	Remarks

**Any other information: Nil**