

Name: Dr. Bibhabasu De
Designation: Assistant Professor
Branch: Physics



Educational Qualification(s):

Qualifications	University
B.Sc.(Hons.)Physics	University of Delhi
M.Sc. (Physics)	IIT Guwahati
Diploma in Advanced Physics (Equivalent to M.Phil.)	Institute of Physics, Bhubaneswar
Ph.D	Institute of Physics, Bhubaneswar (Homi Bhabha National Institute)

Experience in years:

Academic : 2 years

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1.	ICFAI University Tripura	Assistant Professor	26 th August, 2021	Present

Other Information:

a) Publication details:

1. “*Enhancing scalar productions with leptoquarks at the LHC*”, Arvind Bhaskar, Debottam Das, **Bibhabasu De**, Subhadip Mitra, *Phys.Rev.D*, 2020, 102, 035002 (1-15).

2. “*Cancellation in Dark Matter-Nucleon Interactions: the Role of Non-Standard-Model-like Yukawa Couplings*”, Debottam Das, **Bibhabasu De**, Subhadip Mitra, *Phys. Lett.B*, 2021, 815, 136159 (1-10).
3. “*Magnetic Moments of Leptons, Charged Lepton Flavor Violations and Dark Matter Phenomenology of a Minimal Radiative Dirac Neutrino Mass Model*”, **Bibhabasu De**, Debottam Das, Manimala Mitra, Nirakar Sahoo, *JHEP*, 2022, 08, 202 (1-56).
4. “*Leptoquark-assisted singlet-mediated di-Higgs production at the LHC*”, Arvind Bhaskar, Debottam Das, **Bibhabasu De**, Subhadip Mitra, Aruna Kumar Nayak, and Cyrin Neeraj, *Phys.Lett.B C* 833 (2022) 137341(1-10).
5. “*Dark Contributions to $h \rightarrow \mu\mu$ in the Presence of a μ -Flavored Vector-Like Lepton*”, **Bibhabasu De**, *Chin.Phys.Lett.* 40 (2023) 4, 049501(1-4).

b) Details of Seminar/Workshop/Conference:

- **SERB Main School on High Energy Physics 2018: IISER Pune.**
- **International Meeting on High Energy Physics 2019 : IOP Bhubaneswar.** <https://www.iopb.res.in/imhep2019/oc.php>
- **XXIV DAE-BRNS High Energy Physics Symposium 2020 : NISER, Bhubaneswar.** Best poster award for presenting the poster titled “Enhancing Scalar Productions with Leptoquarks at the LHC”--- based on *Phys. Rev. D* 102, 035002 (2020). <https://www.niser.ac.in/daehep2020/index.php>
- **Phenomenology 2021 Symposium : University of Pittsburgh.** Presented the paper “Cancellation in Dark Matter-Nucleon Interactions: the Role of Non-Standard-Model-like Yukawa Couplings” (*Physics Letters B* 815 (2021) 136159). <https://indi.to/hV3LD>
- **The XXVIII International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2021).** Presented the paper “Cancellation in Dark Matter-Nucleon Interactions: the Role of Non-Standard-Model-like Yukawa Couplings” (*Physics Letters B* 815 (2021) 136159). <https://indi.to/MmbWb>
- **International Meeting on EFFECTIVE PATHWAYS TO NEW PHYSICS(IMEPNP-2022).** Presented the paper “Cancellation in Dark Matter-Nucleon Interactions: the Role of Non-Standard-Model-like Yukawa Couplings” (*Physics Letters B* 815 (2021) 136159).

c) Professional membership of reputed bodies:

1. Life Member of the **Indian Association of Physics Teachers (IAPT)**.