

FACULTY PROFILE



1. Name of the Faculty Member: SAURABH NIYOGI

2. Designation with Category: ASSISTANT PROFESSOR, Substantive

3. Department: PHYSICS

4. Educational and Professional Qualifications:

Name of the Institution	Name of the Affiliating Body	Degree/Diploma/Certificate Obtained	Specialization (if any)
Harish-Chandra Research Institute (HRI)	Homi Bhabha National University (HBNI)	Ph. D	High Energy Particle Physics

5. Teaching Experience:

Name of the Institution	Position Held	From	To
Gokhale Memorial Girls' College	Assistant Professor	02/05/2017	Present

6. Areas of Interest (Intra-disciplinary and/or Inter-disciplinary): Collider Phenomenology of various Beyond Standard Model scenario and Higgs Physics, Dark Matter, Cosmology and Physics related to Early Universe

7. Selected Research Publications:

- Pankaj Agrawal, Manimala Mitra, Saurabh Niyogi, Sujay Shil, Michael Spannowsky; (arXiv:1803.00677) “Probing the Type-II Seesaw Mechanism through the Production of Higgs Bosons at a Lepton Collider”; Phys.Rev. D98 (2018) no.1, 015024

- Debajyoti Choudhury, Kirtiman Ghosh, Saurabh Niyogi; (arXiv:1801.01513); “Probing nonstandard neutrino interactions at the LHC Run II” ; Phys.Lett. B784 (2018) 248-254
- Amit Adhikary, Shankha Banerjee, Rahool Kumar Barman, Biplob Bhattacharjee, Saurabh Niyogi; (arXiv:1712.05346); “Revisiting the non-resonant Higgs pair production at the HL-LHC” ; JHEP 1807 (2018) 116
- Manimala Mitra, Saurabh Niyogi, Michael Spannowsky; (arXiv:1611.09594) ; “Type-II Seesaw Model and Multilepton Signatures at Hadron Colliders” ; Phys. Rev. D 95, 035042 (2017)
- AseshKrishna Datta, Kenji Nishiwaki, Saurabh Niyogi; (arXiv:1310.6994); “Non-minimal Universal Extra Dimensions with Brane Local Terms: The Top Quark Sector” ; JHEP 1401 (2014) 104
- Kenji Nishiwaki, Saurabh Niyogi, Ambresh Shivaji; (arXiv:1309.6907); “ $t\bar{t}H$ Anomalous Coupling in Double Higgs Production”; JHEP 04 (2014) 011
- AseshKrishna Datta, Kenji Nishiwaki, Saurabh Niyogi; (arXiv:1206.3987) ; “Non-minimal Universal Extra Dimensions: The strongly interacting sector at the LHC”; JHEP 11 (2012) 154