List of Publications and Preprints

List of papers & preprints that form the thesis of the candidate

- A Note on dimension-5 operators in GUTs and their impact.
  Joydeep Chakrabortty, Amitava Raychaudhuri.

- Gaugino mass non-universality in an SO(10) supersymmetric Grand Unified Theory: Low-energy spectra and collider signals.
  Subhaditya Bhattacharya, Joydeep Chakrabortty.

- GUTs with dim-5 interactions: Gauge Unification and Intermediate Scales.
  Joydeep Chakrabortty, Amitava Raychaudhuri.

- Dimension-5 operators and the unification condition in SO(10) and E(6).
  Joydeep Chakrabortty, Amitava Raychaudhuri.

- An SO(10) model with adjoint fermions for double seesaw neutrino masses.
  Joydeep Chakrabortty, Srubabati Goswami, Amitava Raychaudhuri.
List of papers & preprints of the candidate that are not included in the thesis

- Renormalisation group evolution of neutrino masses and mixing in the Type-III seesaw mechanism.

- Maximal mixing as a ‘sum’ of small mixings.

- TeV scale double seesaw in left-right symmetric theories.
  Joydeep Chakrabortty.

- Type I and new seesaw in left-right symmetric theories.
  Joydeep Chakrabortty.

- Multi-photon signal in supersymmetry comprising non-pointing photon(s) at the LHC.
  Sanjoy Biswas, Joydeep Chakrabortty, Sourov Roy.

- Resonant Leptogenesis with nonholomorphic R-Parity violation and LHC Phenomenology.
  Joydeep Chakrabortty, Sourov Roy.