

List Of Publications

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1. *Heptagonal Symmetry for Quarks and Leptons*. Subhaditya Bhattacharya, Ernest Ma, Alexander Natale, Daniel Wegman, e-Print: arXiv:1210.6936 [hep-ph] (Accepted in PRD).
2. *Effective Lagrangian approach to neutrinoless double beta decay and neutrino masses*. Francisco del Aguila, Alberto Aparici, Subhaditya Bhattacharya, Arcadi Santamaria, Jose Wudka, JHEP 1206 (2012) 146, e-Print: arXiv:1204.5986 [hep-ph].
3. *A realistic model of neutrino masses with a large neutrinoless double beta decay rate*. Francisco del Aguila, Alberto Aparici, Subhaditya Bhattacharya, Arcadi Santamaria, Jose Wudka, JHEP 1205 (2012) 133, e-Print: arXiv:1111.6960 [hep-ph].
4. *Dark Vector-Gauge-Boson Model*. Subhaditya Bhattacharya, J.Lorenzo Diaz-Cruz, Ernest Ma, Daniel Wegman, Phys.Rev. D85 (2012) 055008, e-Print: arXiv:1107.2093 [hep-ph].
5. *Signatures of supersymmetry with non-universal Higgs mass at the Large Hadron Collider*. Subhaditya Bhattacharya, Sanjoy Biswas, Biswarup Mukhopadhyaya, Mihoko M. Nojiri, JHEP 1202:104, 2012; arXiv:1105.3097 [hep-ph]
6. *Supersymmetry Signals at the LHC under the most favorable SUGRA scenario*. Subhaditya Bhattacharya, S. Nandi, arXiv:1101.3301 [hep-ph].
7. *Non-universal scalar mass scenario with Higgs funnel region of SUSY dark matter: a signal-based analysis for the Large Hadron Collider*. Subhaditya Bhattacharya, Utpal Chattopadhyay, Debajyoti Choudhury, Debottam Das, Biswarup Mukhopadhyaya, Phys.Rev.D81:075009, 2010, arXiv:0907.3428 [hep-ph].
8. *Unitarity violation in sequential neutrino mixing in a model of extra dimensions*. Subhaditya Bhattacharya, Paramita Dey, Biswarup Mukhopadhyaya, Phys.Rev.D80: 075013,2009, arXiv:0907.0099 [hep-ph].
9. *Gaugino mass non-universality in an SO(10) supersymmetric Grand Unified Theory: Low-energy spectra and collider signals*. Subhaditya Bhattacharya, Joydeep Chakraborty, Phys.Rev.D81:015007,2010, arXiv:0903.4196 [hep-ph].

10. *Signatures of non-universal gaugino and scalar masses at the Large Hadron Collider.* Subhaditya Bhattacharya, AIP Conf.Proc.1078:277-279,2009, arXiv:0809.2451 [hep-ph].
11. *Non-universal gaugino and scalar masses, hadronically quiet trileptons and the Large Hadron Collider.* Subhaditya Bhattacharya, AseshKrishna Datta, Biswarup Mukhopadhyaya, Phys.Rev.D78:115018,2008, arXiv:0809.2012 [hep-ph].
12. *Non-universal scalar masses: A Signal-based analysis for the Large Hadron Collider.* Subhaditya Bhattacharya, AseshKrishna Datta, Biswarup Mukhopadhyaya, Phys.Rev.D78:035011,2008, arXiv:0804.4051 [hep-ph].
13. *Non-universal gaugino masses: A Signal-based analysis for the Large Hadron Collider.* Subhaditya Bhattacharya, AseshKrishna Datta, Biswarup Mukhopadhyaya, JHEP 0710:080,2007, arXiv:0708.2427 [hep-ph].

In preperation

1. *Dual Dark Matter with Scalars and Fermions.* Subhaditya Bhattacharya, Aleksandra Drozd, Bohdan Grzadkowski, Jose Wudka; to be submitted soon.
2. *Bound on models with large neutrinoless double beta decay rate from Higgs to two photon decay width at LHC.* Francisco del Aguila, Alberto Aparici, Subhaditya Bhattacharya, Arcadi Santamaria, Jose Wudka; to be submitted soon.
3. *Signatures of Warm Dark Matter Fermion from Left-Right Symmetry at LHC.* Subhaditya Bhattacharya, Ernest Ma and Daniel Wegman.
4. *Supersymmetric Left-Right Model of Radiative Neutrino Mass with Multi-partite Dark Matter.* Subhaditya Bhattacharya, Ernest Ma and Daniel Wegman.