

Publications and Preprints in Physics

Publications :

Jasjeet Singh Bagla

1. Bagla J. S. and Prasad Jayanti, *Effects of the size of cosmological N-Body simulations on physical quantities — I: Mass Function*, MNRAS **370**, 993 (2006)

Sandhya Choubey

1. Sanjib K. Agarwalla, Sandhya Choubey, Srubabati Goswami, Amitava Raychaudhuri, *Neutrino parameters from matter effects in the $\nu(e)$ survival probability long baselines*, Phys. Rev. D **75**, 097302 (2007).
2. Sanjib K. Agarwalla, Sandhya Choubey, Amitava Raychaudhuri, *Neutrino mass hierarchy and $\theta(13)$ with a magic baseline beta-beam experiment*, Nucl. Phys. B **771**, 1 (2007).
3. Abhijit Bandyopadhyay, Sandhya Choubey, Srubabati Goswami, S.T. Petcov, *Solar Model Parameters and Direct Measurements of Solar Neutrino Fluxes*, to appear in Phys. Rev. D (2007).
4. Biswajoy Brahmachari, Sandhya Choubey, *Modified Zee mass matrix with zero-sum condition*, Phys. Lett. B **642**, 495 (2006).
5. Sandhya Choubey, N.P. Harries, G.G. Ross, *Probing neutrino oscillations from supernovae shock waves via the IceCube detector*, Phys. Rev. D **74**, 053010 (2006).

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1. Das, Tapas Kumar, Bilić, Neven, & Dasgupta, Surajit, *Black-Hole Accretion Disc as an Analogue Gravity Model*, Journal of Cosmology & Astroparticle Physics, **06**, 009, (2007)
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Justin R. David

1. Justin R. David, Ashoke Sen, *CHL Dyons and Statistical Entropy Function from D1-D5 System*, JHEP **0611** 072, (2006).
2. Justin R. David, Rajesh Gopakumar, *From spacetime to worldsheet: Four point correlators*, JHEP **0701** 063, (2007).
3. Justin R. David, Dileep P. Jatkar, Ashoke Sen, *Dyon Spectrum in $N = 4$ Supersymmetric Type II String Theories*, JHEP **0611** 073, (2006).
4. Justin R. David, Dileep P. Jatkar, Ashoke Sen, *Dyon spectrum in generic $\mathcal{N} = 4$ supersymmetric Z_N orbifolds*, JHEP **0701** 016, (2007).

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1. R. Gandhi and S. Panda, "Probing the cosmic ray 'knee' and very high energy prompt muon and neutrino fluxes via underground muons," JCAP **0607**, 011 (2006) [arXiv:hep-ph/0512179].
2. R. Gandhi and W. Winter, "Physics with a very long neutrino factory baseline," Phys. Rev. D **75**, 053002 (2007) [arXiv:hep-ph/0612158].
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1. J. R. David and R. Gopakumar, *From spacetime to worldsheet: Four point correlators* JHEP **0701**, 63 (2007).
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4. Shamik Banerjee, Anamitra Mukherji, Sumathi Rao and Arijit Saha *Adiabatic charge pumping through a dot at the junction of N quantum wires* Phys. Rev. **B75**, 153407 (2007)

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1. Swarup Kumar Majee, Gautam Bhattacharyya, Anindya Datta, Amitava Raychaudhuri, *Power law scaling in universal extra dimension scenarios*, Nuclear Physics B **760**, 117-127, (2006)
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- *Minimal Universal Extra Dimensions in CalcHEP/CompHEP*, with K. Kong and K.T. Matchev, (In preparation)
- *On implications of high-scale nonuniversalities of gaugino masses at LHC*, with S. Bhattacharya and B. Mukhopadhyaya (In preparation)
- *On interesting signatures of CP-violating SUSY at LHC*, with A. Datta, P. Bandopadhyay and B. Mukhopadhyaya (In preparation)
- *On novel signatures of Little Higgs scenario (with T-parity) at LHC*, with P. Dey, S.K. Gupta, B. Mukhopadhyaya and A. Nyffeler (In preparation)

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