

Publication List

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RESEARCH PUBLICATIONS

A. PUBLICATIONS IN JOURNALS

1. **Supersymmetry Signals of Supercritical String Cosmology at the Large Hadron Collider**, B. Dutta, A. Gurrola, T. Kamon, A. Krislock, A. Lahanas, N. Mavromatos, D. Nanopoulos, arXiv:0808.1372 [hep-ph].
2. **Large Phase of B(s)- anti-B(s) Mixing in Supersymmetric Grand Unified Models**, B. Dutta and Y. Mimura, Phys. Rev. D 78 (2008) 071702 (Rapid Communication).
3. **Attraction towards an inflection point inflation**, R. Allahverdi, B. Dutta, A. Mazumdar, Phys. Rev. D 78 (2008) 063507.
4. **SUSY at the LHC**, B. Dutta, Accepted for publication in EPJC: Meomorial volume of J. Weiss.
5. **Tachyon mediated non-Gaussianity** , B. Dutta, J. Kumar and L. Leblond, Phys. Rev. D 78 (2008) 083522.
6. **Determining the Dark Matter Relic Density in the mSUGRA $\tilde{\chi}_1^0 - \tilde{\tau}_1$ Co-Annihilation Region at the LHC**, R. Arnowitt, B. Dutta, A. Gurrola, T. Kamon, A. Krislock, D. Toback, Phys. Rev. Lett. 100, (2008) 231802.
7. **Proton decay and flavor violating thresholds in SO(10) models**, B. Dutta, Y. Mimura, R. Mohapatra, Phys. Rev. Lett., (100) (2007) 181801.
8. **Unifying inflation and dark matter with neutrino masses**, R. Allahverdi, B. Dutta, A. Mazumdar, Phys. Rev. Lett. 99 (2007) 261301.
9. **Constraint from D - anti-D Mixing in Left-Right Symmetric Models** B. Dutta, Y. Mimura, Phys. Rev. D77 (2008) 051701 (Rapid Communication).
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14. **Modification of the Unitarity Relation for $\sin 2\beta$ - $V(\text{ub})$ in Supersymmetric Models**, B. Dutta and Y. Mimura, Phys. Rev. D75 (2007) 015006.
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16. **Indirect Measurements of the $\tilde{\tau}_1 - \tilde{\chi}_1^0$ Mass Difference and \tilde{M}_g in the Co-annihilation Region of mSUGRA Models at the LHC**, R. Arnowitt, A. Aurisano, B. Dutta, T. Kamon, N. Kolev, P. Simeon, D. Toback and P. Wagner, Phys. Lett. B649 (2007) 73.
17. **B(s)- anti-B(s) Mixing in Supersymmetric Grand Unified Models**, B. Dutta and Y. Mimura, Phys. Rev. Lett 97 (2006) 241802.
18. **B(s)- anti-B(s) Mixing and its Implication for b to s Transitions in Supersymmetry**, R. Arnowitt, B. Dutta, B. Hu, S. Oh, Phys. Lett. B641 (2006) 305.
19. **Theory of Neutrinos: A White paper**, B. Dutta et. al., Rept. Prog. Phys.70 (2007) 1757. .
20. **Detection of SUSY in the Stau-Neutralino Coannihilation Region at the LHC**, R. Arnowitt, B. Dutta, T. Kamon, N. Kolev, D. Toback, Phys. Lett. B639 (2006) 46.
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