

Publication List

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RESEARCH PUBLICATIONS

PUBLICATIONS IN CONFERENCE PROCEEDINGS AND WORKING GROUP REPORTS :

1. **Cosmology and Dark Matter at the LHC**, R. Arnowitt, A. Aurisano, B. Dutta, T. Kamon, N. Kolev, P. Simeon, D. Toback, P. Wagner, Talk at IDM 2006: 6th International Workshop on the Identification of Dark Matter, Island of Rhodes, Greece, 11-16 Sep 2006. e-Print: hep-ph/0701053.
2. **Detection of SUSY signals in stau neutralino co-annihilation region at the LHC**, R. Arnowitt, A. Aurisano, B. Dutta, T. Kamon, N. Kovev, P. Simeon, D. Toback, P. Wagner, Talk at SUSY06: 14th International Conference on Supersymmetry and the Unification of Fundamental Interactions, Irvine, California, 12-17 Jun 2006, e-Print: hep-ph/0611089
3. **The Stau-Neutralino Co-annihilation Region and the Collider Experiments**, By R. Arnowitt, B. Dutta, Talk at 6th UCLA Symposium on Sources and Detection of Dark Matter and Dark Energy in the Universe, Marina del Rey, California, 18-20 Feb 2004, Astron.Rev.49:143-148,2005.
4. **Neutrinos, Lepton Flavor and CP Violation in a Predictive SO(10) Model**, By B. Dutta, Y. Mimura, R.N. Mohapatra, Talk at Coral Gables Conference on Launching of Belle Epoque in High-Energy Physics and Cosmology (CG 2003), Ft. Lauderdale, Florida, 17-21 Dec 2003, Int.J.Mod.Phys.A20:1180,2005.
5. **A Minimal SO(10) Model: Neutrino Masses, Mixing Angles and Lepton Flavor Violation**, B. Dutta, Y. Mimura and R.N. Mohapatra, Talk at Miami, 2004, Fl.
6. **Dark Matter and Colliders**, R. Arnowitt, A. Aurisano, B. Dutta, T. Kamon, V. Khotilovich, D. Toback, P. Wagner, Talk at Fifth International Heidelberg Conference on DARK MATTER IN ASTRO AND PARTICLE PHYSICS Texas A&M University, College Station, TX, USA.
7. **Minimal SUGRA Model and Collider Signals**, R. Arnowitt, B. Dutta, T. Kamon, and V. Khotilovich, Talk at 32nd International Conference on High Energy Physics, Beijing, China.
8. **Theory of Neutrinos**. R.N. Mohapatra et al.. Jun 2004. 50pp. Part of the APS Neutrino Study. e-Print Archive: hep-ph/0412099.
9. **Some Results in M-Theory Inspired Phenomenology**, R. Arnowitt, B. Dutta and B. Hu, Talk at Deserfest, Ann Arbor, Michigan, Apr 2004, hep-ph/0410195
10. **Neutrino Masses, Mixings in a Minimal SO(10) Model and Leptonic Flavor Violation**, B. Dutta, Y. Mimura and R.N. Mohapatra, Talk at the PASCOS04, Boston, August 2004.

11. **The Stau Coannihilation Region and Collider Experiments**, R. Arnowitt, B. Dutta, T. Kamon and V. Khotilovich, Talk at Dark Matter, 2004 (UCLA).
12. **Neutrinos, Lepton Flavor and CP Violation in a Predictive SO(10) Model**, B. Dutta, Y. Mimura and R.N. Mohapatra, Talk at the Coral Gables Conference, Florida, December 2003.
13. **Dark matter, Muon G-2 and other SUSY constraints**, R. Arnowitt, B. Dutta, B. Hu, Plenary talk given at 4th International Conference on Physics Beyond the Standard Model: Beyond the Desert (BEYOND 03), Castle Ringberg, Tegernsee, Germany, 9-14 Jun 2003. e-Print Archive: hep-ph/0310103.
14. **Horava-Witten Cosmology**, R. Arnowitt, J. Dent, B. Dutta, Contributed to 2nd International Conference on String Phenomenology 2003, Durham, England, 29 Jul - 4 Aug 2003. e-Print Archive: hep-th/0309273.
15. **MSUGRA at a 500-GEV Linear Collider**, By R. Arnowitt, B. Dutta, T. Kamon, V. Khotilovich, Plenary talk at International Conference on 20 Years of SUGRA and Search for SUSY and Unification (SUGRA 20), Boston, Massachusetts, 17-20 Mar 2003. e-Print Archive: hep-ph/0308159.
16. **Probing MSUGRA Models at Linear Colliders**, T. Kamon, R. Arnowitt, B. Dutta, V. Khotilovich, talk at International Workshop on Linear Colliders (LCWS 2002), Jeju Island, Korea, 26-30 Aug 2002. e-Print Archive: hep-ph/0302249.
17. **Dark Matter, Muon G - 2 and Other Experimental Constraints**, R. Arnowitt, B. Dutta, talk at Identification of Dark Matter (IDM 2002), September 2002. e-Print Archive: hep-ph/0211417.
18. **Quark, Lepton and Neutrino Masses in Horava-Witten Inspired Models**, R. Arnowitt, B. Dutta, B. Hu, talk given at 1st International Conference on String Phenomenology, Oxford, England, 6-11 Jul 2002. e-Print Archive: hep-ph/0211084.
19. **Cosmology in Horava-Witten M Theory**, R. Arnowitt, James Dent, B. Dutta, talk given at 1st International Conference on String Phenomenology, Oxford, England, 6-11 Jul 2002. e-Print Archive: hep-th/0211035.
20. **Dark Matter and Consequences of SUSY**, R. Arnowitt, B. Dutta, talk given at 10th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY02), Hamburg, Germany, 17-23 Jun 2002. e-Print Archive: hep-ph/0211042.
21. **SUSY Dark Matter: Closing the Parameter Space**, R. Arnowitt, B. Dutta, talk given at Conference on Physics Beyond the Standard Model: Beyond the Desert 02, Oulu, Finland, 2-7 Jun 2002. e-Print Archive: hep-ph/0210339.
22. **Supersymmetry and Dark Matter**, R. Arnowitt, B. Dutta, talk given at DARK 2002: 4th International Heidelberg Conference on Dark Matter in Astro and Particle Physics, Cape Town, South Africa, 4-9 Feb 2002. e-Print Archive: hep-ph/0204187.
23. **Decays $B \rightarrow \eta' K$ in R Parity Violating Supersymmetry**, B. Dutta, C.S. Kim, Sechul Oh, talk at 5th KEK Topical Conference: Frontiers in Flavor Physics (KEKTC5), Tsukuba, Ibaraki, Japan, 20-22 Nov 2001. e-Print Archive: hep-ph/0207171.
24. **Supersymmetry and Dark Matter**, R. Arnowitt, B. Dutta, talk at DARK 2002: 4th International Heidelberg Conference on Dark Matter in Astro and Particle Physics, Cape Town, South Africa, 4-9 Feb 2002. e-Print Archive: hep-ph/0204187.

25. **Muon G-2 and Electric Dipole Moments in SUGRA Models**, R. Arnowitt, B. Dutta, B. Hu and Y. Santoso, talk at 9th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY01), Dubna, Russia, 11-17 Jun 2001, 11-17 Jun, hep-ph/0108082.
26. **Effects of the Muon G-2 Anomaly on Dark Matter and Accelerator Physics**, R. Arnowitt, B. Dutta, B. Hu and Y. Santoso, talk at 15th Les Rencontres de Physique de la Vallee d'Aoste, La Thuile, Valle d'Aosta, Italy, 4-10 Mar 2001, hep-ph/0107120.
27. **Neutralino Proton Cross-section and Dark Matter Detection**, R. Arnowitt, B. Dutta, and Y. Santoso, talk at 4th International Conference on Particle Physics (COSMO 2000), Cheju Island, Korea, 4-8 Sep 2000, hep-ph/0101020.
28. **Yukawa Textures in Heterotic M Theory**, R. Arnowitt and B. Dutta, talk at DPF 2000, Columbus, OH, August 9-12, 2000, hep-th/0011181.
29. **Neutralino-Proton Cross-Sections in SUGRA and D-Brane Models**, R. Arnowitt and B. Dutta and Y. Santoso, talk at DPF 2000, Columbus, OH, August 9-12, 2000, hep-ph/0011196.
30. **Yukawa Textures and Horava-Witten M Theory**, R. Arnowitt and B. Dutta, talk at 30th International Conference on High-Energy Physics (ICHEP 2000), Osaka, Japan, 27 Jul - 2 Aug 2000, hep-th/0008238.
31. **Dark Matter Detection Cross-Sections**, R. Arnowitt, B. Dutta and Y. Santoso, talk at 30th International Conference on High-Energy Physics (ICHEP 2000), Osaka, Japan, 27 Jul - 2 Aug 2000, hep-ph/0008320.
32. **Maximum and Minimum Dark Matter Detection Cross-Sections**, R. Arnowitt, B. Dutta and Y. Santoso, talk at Workshop on the Next Generation U.S. Underground Facility, Carlsbad, NM, Jun 2000, hep-ph/0008336.
33. **Neutralino-Proton Cross-Sections for Dark Matter in SUGRA and D-Brane Models**, R. Arnowitt, B. Dutta and Y. Santoso, talk at 4th International Symposium on Sources and Detection of Dark Matter in the Universe (DM 2000), Marina del Rey, California, 23-25 Feb 2000; hep-ph/0005154.
34. **CP Violating Phases in SUSY GUT Models**, E. Accomando, R. Arnowitt and B. Dutta, talk at International Symposium on Supersymmetry, Supergravity and Superstring, Seoul, Korea, 23-27 Jun 1999, hep-ph/0001121.
35. **A supersymmetric explanation of ϵ'/ϵ** , B. Dutta, talk given at the SUSY 99, Fermilab, IL.
36. **The Signature at the Tevatron for the Light Doubly Charged Higgsino of Supersymmetric Left Right Models**, B. Dutta, talk at the RUN II Workshop, Fermilab, IL, *Report of the BEYOND THE MSSM Working Group for RUN II of the Tevatron*, hep-ph/0006162.
37. **Searching for doubly charged Higgs boson at the Tevatron**, B. Dutta, talk at the RUN II Workshop, Fermilab, IL, *Report of the SUGRA Working Group for RUN II of the Tevatron*, hep-ph/0003154.
38. **Phenomenology of the doubly charged Higgs boson at the Tevatron**, B. Dutta, talk at the RUN II Workshop, Fermilab, IL.
39. **Signatures of the GMSB models at the Tevatron**, B. Dutta, talk at Pascos 98, Northeastern University, Boston, MA.

40. **A Grand Unified Model With $M_G \sim M_{\text{string}}$ and $M_I \sim 10^{12}$ GeV**, N.G. Deshpande, B. Dutta and E. Keith, presented at 1996 Annual Divisional Meeting (DPF 96) of the Division of Particles and Fields of the American Physical Society, Minneapolis, MN, 10-15 Aug 1996.
41. **Lepton Flavor Violation and Electric Dipole Moments from an Intermediate Scale in SUSY Grand Unification**, N.G. Deshpande, B. Dutta and E. Keith, presented at 1996 Annual Divisional Meeting (DPF 96) of the Division of Particles and Fields of the American Physical Society, Minneapolis, MN, 10-15 Aug 1996.
42. **Effects of an Intermediate Scale in SUSY Grand Unification**, N.G. Deshpande, B. Dutta and E. Keith. Talk given at 4th International Conference on Supersymmetries in Physics (SUSY 96), College Park, MD, 29 May - 1 Jun 1996. Published in Nucl.Phys.Proc.Suppl.52A:172-176,1997.