

VITA

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Professor, Mitchell/Heep Chair of High Energy Physics, Director, Mitchell Institute for Fundamental Physics and Astronomy,
Department of Physics and Astronomy, Texas A& M University, College Station, TX, 77843-4242
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PREVIOUS POSITIONS:

- Associate Professor (2005-2009 (August)), Department of Physics and Astronomy, Texas A&M University.
- Assistant Professor (2002-2005 (July)), University of Regina, Regina, SK S4S 0A2, Canada.
- Post-Doctoral Research Associate (1998-2002), Department of Physics, Texas A&M University.
- Post-Doctoral Research Associate (1995-1998), Institute of Theoretical Sciences, University of Oregon, Eugene, OR 97403.

EDUCATION:

- Ph.D (Physics) Oklahoma State University, (Fall, 1990-Summer, 1995) .
- M.Sc (Physics) University of Calcutta, India, (1988-1990) (was placed in First class).
- B.Sc (Physics, Mathematics) Presidency College, Calcutta University, (1984-1987) (was placed in First class).

SPECIAL AWARDS AND HONORS:

- American Physical Society Fellow, 2020
- Holder of Mitchell-Heep Chair in High Energy Physics since 2019
- Distinguished Alumni Award, Oklahoma State University, 2017.
- Association of Former Students College-Level Distinguished Achievement Award in Teaching, 2012
- Selected an outstanding junior scientist in Canada by the Partnership Group for Science and Engineering. Attended the symposium “Leaders of Tomorrow” in Canadian Parliament, Ottawa (Nov., 2004).
- Best Research Assistant (1993, OSU).
- National Merit Scholarship (B.Sc).
- National Merit Scholarship (High School).

REFEREE:

- National Science Foundation Grant proposals and panelist of the High Energy theory funding review committee.
- Department of Energy Grant Proposals and panelist of the High Energy theory funding review committee.
- Physics Review D and Physics Review Letters.
- Physics Letters B.
- JHEP
- JCAP
- Reviewer of European theory proposals.
- Associate Editor, Frontiers journal High Energy and Astro-particle Physics
- Editor, Letters in High Energy Physics

RESEARCH PUBLICATIONS CITATION STATISTICS:

228 papers in major journals with ~ 9000 citations, h-index 55
[\(publication and citation database\)](#)

GRANTS :

- Department of Energy (2007-2010), (2010-2013), (2013-2016), (2016-2017), (2017-2020), (2020-2023), (2023-2026).
- TAMU-LANL collaborative funding (2021-2024).
- College of Science, Strategic Transformative Research Program Funds 2018-2019.
- Fermilab neutrino program funding, 2019.
- NSF funding to organize workshop (2015,2013)
- DOE funding to organize workshop (2019, 2015,2012)
- Conacyt funding to organize PPC in Mexico (2014)
- IRTAG travel grant (TAMU).
- NSF-Research Experiences for Undergraduates (Co-PI)(2007-08).
- Department of Education: Graduate Assistance in the Areas of National Need (Co-PI)(2007-2010)
- Natural Sciences and Engineering Research Council of Canada (2003-2005).

INVITED CONTRIBUTIONS:

- Invited contribution Snowmass white paper on dark sector studies with neutrino beams, 2022
- Invited contribution Snowmass white paper on light sterile neutrino searches and phenomenology, 2022

- Invited contribution Snowmass white paper on coherent neutrino-nucleus scattering, 2022
- Invited contribution Snowmass white paper on neutrino self interaction, 2022
- Invited contribution Snowmass white paper on Forward Physics Facility, 2022
- Invited to contribute to Neutrino Non-Standard Interactions: A Status Report, 2019
- Invited to contribute to the Proceedings of The Magnificent $CE\nu NS$ Workshop 2018
- Invited to write a review article on neutrino physics and dark matter detector in Annual Review of Nuclear and Particle Science, 2019
- Invited to contribute a review on SUSY at the LHC to LHCP proceeding in PoS LHCP2018 (2018) 160.
- Invited to contributions to SILAFAE 2016 proceeding (XI Latin American Symposium of High Energy Physics)
- Invited to edit the conference proceeding: “Workshop on Dark Matter, Unification and Neutrino Physics (CETUP* 2015)
- Invited to contribute to the Intensity Frontier Documents on proton decay, lepton flavor violation (2012);
- Invited contributions for Snowmass white paper (2013) in dark matter, collider.
- Invited to edit the conference proceeding: Workshop on Dark Matter, Neutrino Physics and Astrophysics CETUP* 2013: 7th International Conference on Interconnection between Particle Physics and Cosmology (PPC 2013)
- Invited to edit the conference proceeding: “Workshop on Dark Matter, Unification and Neutrino Physics (CETUP* 2012)”.
- Invited to contribute to the Intensity Frontier Document on proton decay, lepton flavor violation,
- Invited to contribute to the summary document Pre-SUSY 2009: Beyond the Standard Model Physics and LHC Signatures (BSM-LHC), Boston, Massachusetts,
- Invited to contribute “SUSY at the LHC” to the Julius Wess memorial volume, to be published by EPJC in 2008.
- Invited to contribute to the Supersymmetry Parameter Analysis project (Chairpersons: J. Kalinowski, H.-U. Martyn).
- Invited to contribute in recent APS Neutrino Study (Study Organizers: Boris Kayser and Stuart Freedman).
- Invited to contribute to white paper for Linear Collider.
- Invited to contribute to report of the SUGRA working group for RUN II of the Tevatron.
- Invited to contribute to report on low scale and gauge mediated supersymmetry breaking at the Fermilab Tevatron RUN II.

- Invited to contribute to report of the beyond the MSSM subgroup for the Tevatron RUN II SUSY / Higgs workshop.

ADVISING:

Post Doctoral:

1. Dr. Doojin Kim (2021-)
2. Dr. Mohammad Abdullah (2017-2020, faculty, Kuwait University)
3. Prof. Peisi Huang (2016-2017, current position: Assistant Professor, University of Nebraska)
4. Prof. Yu Gao (2013-2016, current position: Assistant Professor, IHEP, Beijing, China)
5. Prof. Kuver Sinha (2010-2013, current position : Assistant Professor, University of Oklahoma),
6. Prof. Yukihiro Mimura (2005-2009, current position: Research Prof., Dept. of Phys., National Taiwan University);
7. Prof. James Dent (2005-2006, current position: Assistant Professor, Dept. of Phys., Sam Houston State University),
8. Prof. Jason Kumar (2005-2007, current position: Associate Professor, Dept. of Phys., University of Hawaii)

Doctoral: Supervisor (chair of the Ph.D. committee):

1. Wei-Chi Huang(current)
2. Ankur Verma (current)
3. Aparajitha Karthikeyan(current)
4. Iain Bissett (current)
5. Debopam Goswami (current)
6. Adrian Thomson (graduated in 2023 summer), post-doctoral fellow at Northwestern University, Chicago, IL
7. Sumit Ghosh (graduated in 2021 summer), post-doctoral fellow at KIAS
8. Shu Liao (graduated in 2020 spring), Research Scientist at Amazon
9. Dr. Steven Clark (graduated in 2019 summer, Position from Fall 2019: Post-doctoral fellow: Brown University)
10. Dr. Esteban Jimenez (graduated 2018, current position: Assistant Professor, Department of Physics, University of Costa Rica)
11. Dr. Sean Wu (graduated 2017, current position: Visiting Assistant Professor, Department of Physics, University of Cincinnati)

12. Dr. Tathagata Ghosh (graduated 2016, current position: Professor, Harish Chandra Research Institute, Allahabad, India)
13. Dr. Kechen Wang (graduated 2014, current position: Professor, Kechen Wang (Wuhan U. of Tech., China)
14. Dr. Sean Downes (graduated 2013, current position: Post-doctoral fellow, Dept. of physics, University of Taiwan),
15. Dr. Sheldon Campbel (graduated, 2012, current position: Lead Data Scientist at Sobeys, Toronto, Ontario, Canada),
16. Dr. Abram Krislock (graduated, 2011, current position: Post-doctoral fellow, Dept. of Physics, University of Oslo, Norway)

Undergraduate:

1. P. Simeon (Goldwater scholar, graduated, 2009, current position: graduate student, Dept. of physics, Stanford University),
2. Phuongmai Truong (graduated, 2011, current position: graduate student, Dept. of physics, University of California, Berkeley),
3. Daniel Freeman (Best Thesis award, graduated, 2012, current position: graduate student, Dept. of physics, University of California, Berkeley),
4. Chris Akers (graduated, 2013, current position: graduate student, Dept. of physics, University of California, Berkeley)

SPEAKER AT MAJOR CONFERENCES, UNIVERSITIES AND SUMMER SCHOOL

1. Invited speaker at Neutrino Frontiers: Neutrinos in cosmology, non-standard neutrino physics, and neutrino anomalies, GGI Institute, Florence, Italy, July 1-July 5, 2024
2. Invited speaker at the sixth iteration of the Magnificent CEvNS workshop, Valencia, Spain, June 12-14, 2024
3. Invited seminar at Network for Neutrinos, Nuclear Astrophysics, and Symmetries, University of California, Berkeley (Feb 13, 2024)
4. Invited talk at TAU2023, University of Louisville, Ky(December, 2023)
5. Invited talk at Origin of Matter, summer school at ICTP-SAIFR, Sao Paulo, Brazil (December 2023)
6. Colloquium at Federal University, Sao Paulo, Brazil (December, 2023)
7. Invited talk at ACE workshop at Fermilab, Il (June, 2023)
8. Invited talk at Physics Opportunities at Beam Dump Facility in PIP-II and Beyond, Fermilab, Il (May, 2023)
9. Invited seminar at Majorana-Raychaudhuri seminar series, organized by Italy and India (Jan, 27, 2023)

10. Invited talk at Nu Tools for BSM at Neutrino Beam Experiments workshop, Pitt-PAC, University of Pittsburgh (2022)
11. Invited talk at The First International Conference on Axion Physics and Experiment (Axion 2022), Academia Sinica, China (2022)
12. Invited talk at International workshop on high energy physics and Cosmology, Xian, China(2022)
13. Invited talk at Theoretical Astroparticle and Cosmology Symposium in Texas, SMU, (2022)
14. Invited talk at PPC, Washington University, St. Louis, Missouri (2022)
15. invited science talk at Oakridge National Laboratory (2021)
16. invited talk at SUSY 2021, Beijing, China (2021)
17. Invited talk at PPC, University of Oklahoma, Norman, (2021)
18. Seminar at University of New Mexico (2021)
19. Colloquium at Colorado State University (2020).
20. Seminar at KIAS, Korea (2020).
21. Talk at Snowmass neutrino workshop (2020).
22. Seminar at TAMU-LANL(2020).
23. Talk at Rice University, (CAPP, 2019).
24. Talk at 2nd Target Station FPSTS, Oak Ridge, TN (July, 2019).
25. Talk at Opportunities at future collider, Madrid, Spain, (June, 2019).
26. Talk at ν – electron scattering workshop-University of Massachusetts, (April 2019).
27. Talk at NTN workshop, Washington Univ., St. Louis, (May, 2019).
28. Seminar at UC Irvine, California, (February, 2019).
29. Seminar at IACS, Kolkata, India (December, 2018).
30. Talk at CE ν NS, University of Chicago, (November, 2018)
31. Talk at SUSY 2018, Barcelona, Spain (July, 2018)
32. Talk at Summer Workshop in Particle Physics, Santa Fe, NM (July, 2018)
33. Talk at LHCP, Bologna, Italy (June, 2018)
34. Seminar at Syracuse University (March, 2018)
35. Seminar at IACS, Kolkata, India (December, 2017)
36. Colloquium at Texas Tech University (October, 2017)
37. Colloquium and seminar at OSU, Stillwater (September, 2017)

38. Talk at WIN 2017, Irvine, CA, 2017
39. Talk at International Summer School, Bogota, Colombia, May, 2017
40. Talk at South American Dark Matter Workshop, ICTP-SAIFR, São Paulo, Brazil, May, 2017
41. Talk at Miami, 2016 (December, 2016)
42. Talk at the Latin American Symposium on High Energy Physics (SILAFEA) —Guatemala (November, 2016)
43. Talk at LHC Run 2—Santa Fe (July, 2016)
44. Talk at Sixth Workshop on Theory, Phenomenology and Experiments in Flavour Physics - FPCapri2016 (June, 2016)
45. Colloquium at University of Houston-Clear Lake (February, 2016)
46. Colloquium at University of Delaware (October, 2015)
47. Seminar at University of Delaware (October, 2015)
48. Talk at NEW TECHNOLOGIES for DISCOVERY Organized by the Coordinating Panel for Advanced Detectors of the DPF of the APS (October, 2015)
49. Talk at DM workshop, Madrid (May, 2015)
50. Talk at Cambridge-Mitchell workshop (April, 2015)
51. Talk at University of New Mexico (March 2015)
52. Talk at University of Texas (February, 2015)
53. Talk at University of Louisiana (February, 2015)
54. Talk at IACS, Kolkata (December, 2014)
55. Talk at XVI Mexican School of Particles and Fields, Mexico (December, 2014)
56. Talk at Hidden Dark Conference 2014, Michigan (November, 2014)
57. Talk at Multidark Conference 2014, Daejeon, Korea (October, 2014)
58. Talk at 100 TeV Collider Workshop 2014, Fermilab (August, 2014)
59. Talk at String Phenomenology 2014, ICTP, Trieste (July, 2014)
60. Talk at LHC After the Higgs, Santa Fe, New Mexico (July, 2014)
61. Talk at PPC, Mexico (June, 2014)
62. Talk at Summer School, Los Andes University, Bogota, Colombia (May, 2014)
63. Talk at Miami 2013, Florida(December, 2013)
64. Talk at CosPa 2013(November, 2013)

65. DM Talk at Aspen summer workshop 2013(September, 2013)
66. Talk at Aspen summer workshop 2013(september, 2013)
67. Talk at CETUP 2013 (July, 2013)
68. Talk at LHCP 2013(May, 2013)
69. Talk at BNL-Snowmass 2013(April, 2013)
70. Talk at Aspen Winter workshop 2013(January, 2013)
71. Talk at Miami 2012, Florida(December, 2012)
72. Talk at PPC, Seoul, Korea (November, 2012)
73. Talk at CETUP* workshop, South Dakota (July, 2012)
74. Talk at TCC Workshop, Austin (May, 2012)
75. Talk at Sam Houston State University (April, 2012)
76. Talk at University of New Mexico (March, 2012)
77. Talk at Bethe Forum, Germany (November, 2011)
78. Talk at Mini-Workshop on Dark Matter (May, 2011)
79. Colloquium at Baylor University (September, 2011)
80. Talk at PASCOS, July 2009
81. Talk at TAUP, July 2009
82. Talk at SUSY, June 2009
83. Talk at SUSY-BSM, June 2009
84. Talk at PPC 2009, May 2009
85. Talk at DARK 2009, January 2009
86. Talk at Coral Gables, Florida, December, 2008.
87. Seminar at University of Torino,Italy, 2008.
88. Talk at Cosmo 2008, Madison, Wisconsin.
89. Talk at IDM 2008, Stockholm, Sweden.
90. Seminar speaker at University of Durham, UK, June, 2008.
91. Talk at ICHEP (international Conference on High Energy Physics, 2 talks), 2008.
92. Talk at CDF, Fermilab, April, 2008.
93. Colloquium at Texas Tech University (March, 2008).

94. Seminar at University of New Mexico (March, 2008).
95. Talk at DM 2008, February, UCLA.
96. Talk at Les Rencontres de Physique de La Vallee, LaThuile, Italy 2008, February.
97. Two seminars at the university of Maryland (November, 2007).
98. Talk at B-L violation workshop, LBNL (2007).
99. Talk at SUSY, Karlsruhe, Germany (2007).
100. Talk at Ultra Cold and Cold Neutrons, St Petersburg, Russia(2007).
101. Talk at Dark Side of the Universe, Minnesota (2007).
102. Talk at the Midwest Theory Conference, Kansas (2007).
103. Talk at the DPF'06, Hawaii, US Oct(2006) two talks.
104. Talk at the ICHEP'06, Moscow, Russia July(2006).
105. Talk at the CDMSCE'06, Irvine, June(2006).
106. Talk at the PHENO'06, Wisconsin, May(2006).
107. Seminar and Colloquium Speaker at OSU, April(2006).
108. Talk at the DM'06, (UCLA Symposium), February(2006).
109. Talk at the Coral Gables Conference, Florida, December(2005).
110. Talk at the SUSY'05, Durham, UK, July(2005).
111. Seminar Speaker at UC Riverside, CA, April(2005).
112. Colloquium Speaker at TAMU, Tx, Jan.(2005).
113. Talk at the ILC Workshop, Stanford University, SLAC, tanford, CA, January(2005).
114. Talk at the DARK, 2004, October(2004).
115. Talk at the PASCOS, 2004 (Boston), August(2004).
116. Talk at the LC Workshop, 2004 (Victoria), July(2004).
117. Talk at the CAP Congress, 2004 (Winnipeg), June(2004).
118. Talk at the Dark Matter 2004 (UCLA Symposium), February(2004).
119. Talk at the Coral Gables Conference, Florida, December(2003).
120. Talk at the 2nd String-phenomenology Conference, Durham, (July'2003).
121. Talk at the LC Workshop, Cornell University, Ithaca, NY, July(2003).
122. Talk at the LC Workshop, Arlington, January(2003).

123. Talk at the Coral Gables Conference, Florida, December(2002).
124. Talk at the Cosmo 02, Chicago, (September'2002).
125. Talk at the Ist String-phenomenology Conference, Oxford, (July'2002).
126. Talk at the University of Regina, Regina, CA (Spring'2002).
127. Talk at the University of Regina, Regina, CA (Spring'2002).
128. Talk at Dark Matter 2002, UCLA, CA, February, 2002.
129. Seminar speaker at the University of Alabama, Tuscaloosa, AL (Spring'2002).
130. Colloquium speaker at the Texas A & M University, College Station, TX (Spring'2002).
131. Talk at the LC Workshop at the University of Chicago, January, 2002.
132. Talk at the Coral Gables at Fourt Lauderdale, Fl, December, 2001.
133. Talk at EDM 2001 at BNL, NY, May, 2001.
134. Colloquium speaker at the Texas A & M University, College Station, TX (Spring'2001).
135. Seminar speaker at the University of Indiana, Bloomington, IN (Spring'2001).
136. Talk at the Orbis Scientae 2000 at Fourt Lauderdale, Fl, December, 2000.
137. Talk at the DPF 2000 at Columbus, Oh, August, 2000.
138. Talk at the SUSY 99, Fermilab, IL, June, 1999.
139. Talk at the Final RUN II Workshop, Fermilab, IL, November, 1998.
140. Seminar speaker at the Southern Methodist University, Dallas, TX (Fall'98).
141. Seminar speaker at the University of Kansas, Lawrence, Kansas (Fall'98).
142. Seminar speaker at the University of Colorado, Boulder, Colorado (Fall'98).
143. Talk at the Pascos 98, Northeastern University, Boston, MA, April 1998.
144. Talk at the RUN II Workshop, Fermilab, IL, May, 1998.
145. Talk at the International Symposium in High Energy Phenomenology, Madison, Wisconsin, April 1997.
146. Talk at the DPF meeting at Univ. of Minnesota, 1996.
147. Talk at SUSY 96 at Univ. of Maryland, 1996.
148. Talk at the BSMIV at Lake Tahoe, CA, 1994.
149. Talk at the DPF meeting at Albuquerque, New Mexico, 1994.
150. Talk at the International Symposium: *Physics Does Not Stop, Recent Development in High Energy Phenomenology* , Madison, Wisconsin, April 1994.

VISITING SCIENTIST :

1. University of Bonn, Fall, 2011.
2. Brookhaven National Laboratory New York, Summer, 1998.
3. Fermi National Accelerator Laboratory, Batavia, Illinois, Summer, 1998.
4. Stanford Linear Accelerator Lab, Summer, 1997.
5. Stanford Linear Accelerator Lab, Summer, 1995.
6. University of Illinois at Urbana-Champaign, Fall, 1994.
7. Brookhaven National Laboratory New York, Summer, 1994.
8. Fermi National Accelerator Laboratory, Batavia, Illinois, Summer, 1994.
9. Fermi National Accelerator Laboratory, Batavia, Illinois, Summer, 1992.

CONFERENCE ORGANIZED:

- Co-organizer of CETUP-2024 (a workshop on neutrino and dark matter), South Dakota, June-July, 2024
- Co-organizer of CETUP-2023 (a workshop on neutrino and dark matter), South Dakota, June-July, 2023
- Co-organizer of the Interplay of Nuclear, Neutrino and BSM Physics at Low-Energies workshop, INT-University of Washington, April, 2023
- Co-organizer of the Nu Tools for BSM at Neutrino Beam Experiments workshop, Pitt-PAC, University of Pittsburgh, December 2022
- Co-organizer of the Dark Universe Workshop at ICTP-SAIFR, Sao Paulo- Brazil, October, 2019
- Co-chair of SUSY 2019 at TAMU-Corpus Christi, TX, May, 2019
- Local organizing Committee member of Neutrino workshop at the University of Texas, Arlington April, 2019
- Organized and co-chaired Collider, Neutrino and Dark Matter Workshops 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2022, 2023, 2024 TAMU;
- Coherent Neutrino Scattering Experiment Workshop, Texas A&M University”, November 2015
- Co-director of the ”XVI Mexican School of Particles and Fields/BCVSPIN”, organized at Collima, Mexico, 8-13 December;
- Organized Interconnection between Particle physics and Cosmology(PPC) 2014, Leon, Mexico), PPC 2013, 2015(South Dakota), 2008(University of New Mexico)
- Organized and chaired two week dark matter program at CETUP 2012, South Dakota;

- Organized and Co-Chaired Inflation 2011, TAMU;
- Organized the First Interconnection between Particle physics and Cosmology(PPC) 2007, College Station, TX)

TEACHING :

- Electromagnetic Theory-II [Graduate];
- Quantum Field Theory I, II [Graduate];
- Introduction to Particle Physics [Graduate];
- Weak Scale Supersymmetry [Graduate];
- Methods of Theoretical Physics [Graduate];
- Mathematical Methods [Graduate]
- Electricity and Magnetism [Undergraduate];
- Mathematical Physics [Undergraduate];
- Quantum Mechanics [Graduate];
- Cosmology and General Relativity [Graduate];
- Classical Mechanics [Graduate].

OUTREACH:

- Co-organized and initiated Mitchell Institute Physics Enhancement Program-MIPEP (2012-2022)
- Presented talk at the Saturday Morning Physics for High School students.
- Participated in the Physics Festival with a demonstration every spring, 2006-2016.

SERVICE:

- Serving as a director of Mitchell Institute for Fundamental Physics and Astronomy.
- Serving as a member of the international advisory committee of the international workshop on Supersymmetry and Grand Unification (SUSY).
- Serving as a member for CETUP (a workshop on neutrino and dark matter), Institute for Underground Science at Sanford Underground Research Facilities, South Dakota
- Serving as a member of the review panel for the theory programs of national Laboratories
- Served as a member of DOE and NSF theory review panels
- Served as members of APS award committees
- Serving as a member of the editorial board of the journal: Letters in High Energy Physics.

- Serving as a member of the international advisory committee of the international workshop on interconnection between particle physics and cosmology (PPC).
- Serving as a member of the advisory committee of BCVSPIN.
- Serving as a member of the Graduate Curriculum Committee (chaired the committee).
- Served as a member and chair of the Promotion and Tenure Committee.
- Served as a member of the Undergraduate Curriculum Committee.
- Serving as a member of the Graduate Admission Committee
- Served as a Faculty Search Committee member in 6 faculty searches
- Served as a member of many (~ 30) Ph.D. committees

RESEARCH PUBLICATIONS IN JOURNALS

1. **Machine learning techniques for intermediate mass gap lepton partner searches at the large hadron collider**, B. Dutta, T. Ghosh, A. Horne, J. Kumar, S. Palmer, P. Sandick, M. Snedeker, P. Stengel and J. W. Walker, Phys. Rev. D **109**, no.7, 075018 (2024)
2. **Longer-lived mediators from charged mesons and photons at neutrino experiments**, B. Dutta, A. Karthikeyan and D. Kim, Phys. Rev. D **109**, no.7, 075029 (2024).
3. **Bragg-Primakoff axion photoconversion in crystal detectors**, J. B. Dent, B. Dutta and A. Thompson, JHEP **02**, 190 (2024).
4. **New constraints on ALP couplings to electrons and photons from ArgoNeuT and the MiniBooNE beam dump**, F. Capozzi, B. Dutta, G. Gurung, W. Jang, I. M. Shoemaker, A. Thompson and J. Yu, Phys. Rev. D **108**, no.7, 075019 (2023)
5. **Probing the Dark Sector with Nuclear Transition Photons**, B. Dutta, W. C. Huang and J. L. Newstead, Phys. Rev. Lett. **131** (2023) no.11, 111801
6. **Detecting axionlike particles with primordial black holes**, K. Agashe, J. H. Chang, S. J. Clark, B. Dutta, Y. Tsai and T. Xu, Phys. Rev. D **108** (2023) no.2, 023014
7. **Non-standard neutrino interactions in light mediator models at reactor experiments**, B. Dutta, S. Ghosh, T. Li, A. Thompson and A. Verma, JHEP **03**, 163 (2023)
8. **Indirect detection of low mass dark matter in direct detection experiments with inelastic scattering**, N. F. Bell, J. B. Dent, B. Dutta, J. Kumar and J. L. Newstead, Phys. Rev. D **106** (2022) no.10, 103016
9. **L. Waites, A. Thompson, A. Bungau, J. M. Conrad, B. Dutta, W. C. Huang, D. Kim, M. Shaevitz and J. Spitz, Phys. Rev. D **107** (2023) no.9, 095010**, L. Waites, A. Thompson, A. Bungau, J. M. Conrad, B. Dutta, W. C. Huang, D. Kim, M. Shaevitz and J. Spitz, Phys. Rev. D **107** (2023) no.9, 095010.
10. **Inelastic nuclear scattering from neutrinos and dark matter**, B. Dutta, W. C. Huang, J. L. Newstead and V. Pandey, Phys. Rev. D **106** (2022) no.11, 113006.

11. **Probing new physics at DUNE operating in a beam-dump mode**, V. Brdar, B. Dutta, W. Jang, D. Kim, I. M. Shoemaker, Z. Tabrizi, A. Thompson and J. Yu, *Phys. Rev. D* **107** (2023) no.5, 055043.
12. **Indirect detection of low mass dark matter in direct detection experiments with inelastic scattering**, N. F. Bell, J. B. Dent, B. Dutta, J. Kumar and J. L. Newstead, *Phys. Rev. D* **106**, no.10, 103016 (2022).
13. **Indirect detection of low mass dark matter in direct detection experiments with inelastic scattering**, B. Dutta, W. C. Huang, J. L. Newstead and V. Pandey, *Phys. Rev. D* **106**, no.11, 113006 (2022).
14. **Sensitivity to dark sector scales from gravitational wave signatures** J. B. Dent, B. Dutta, S. Ghosh, J. Kumar and J. Runburg, *JHEP* **08**, 300 (2022)
15. **Probing an MeV-scale scalar boson in association with a TeV-Scale top-quark partner at the LHC**, B. Dutta, S. Ghosh, A. Gurrola, D. Julson, T. Kamon and J. Kumar, *JHEP* **03** (2023), 164
16. **Correlating gravitational wave and gamma-ray signals from primordial black holes**, K. Agashe, J. H. Chang, S. J. Clark, B. Dutta, Y. Tsai and T. Xu, *Phys. Rev. D* **105**, no.12, 123009 (2022)
17. **Solutions to the MiniBooNE Anomaly from New Physics in Charged Meson Decays**, B. Dutta, D. Kim, A. Thompson, R. T. Thornton and R. G. Van de Water, *Phys. Rev. Lett.* **129**, no.11, 111803 (2022)
18. **Leptonic scalars and collider signatures in a UV-complete model**, P. S. B. Dev, B. Dutta, T. Ghosh, T. Han, H. Qin and Y. Zhang, *JHEP* **03**, 068 (2022)
19. **Searching for dark matter signals in timing spectra at neutrino experiments**, B. Dutta, D. Kim, S. Liao, J. C. Park, S. Shin, L. E. Strigari and A. Thompson, *JHEP* **01**, 144 (2022)
20. **Extending the reach of leptophilic boson searches at DUNE and MiniBooNE with bremsstrahlung and resonant production**, F. Capozzi, B. Dutta, G. Gurung, W. Jang, I. M. Shoemaker, A. Thompson and J. Yu, *Phys. Rev. D* **104**, no.11, 115010 (2021)
21. **Cosmic-ray upscattered inelastic dark matter**, N. F. Bell, J. B. Dent, B. Dutta, S. Ghosh, J. Kumar, J. L. Newstead and I. M. Shoemaker, *Phys. Rev. D* **104**, 076020 (2021)
22. **Explaining $g_\mu - 2$ and $R_{K^{(*)}}$ using the light mediators of $U(1)_{T3R}$** , B. Dutta, S. Ghosh, P. Huang and J. Kumar, *Phys.Rev.D* **105** 1, 015011 (2022).
23. **Pathfinder for a High Statistics Search for Missing Energy In Gamma Cascades**, J. B. Dent, B. Dutta, A. Jastram, D. Kim, A. Kubik, R. Mahapatra, S. Rajendran, H. Ramani, A. Thompson and S. Verma, *Phys.Rev.D* **105** 1, 015030 (2022)
24. **Light, long-lived B – L gauge and Higgs bosons at the DUNE near detector**, P. S. B. Dev, B. Dutta, K. J. Kelly, R. N. Mohapatra and Y. Zhang, *JHEP* **07**, 166 (2021)

25. **Coherent elastic neutrino-nucleus scattering with the ν BDX-DRIFT directional detector at next generation neutrino facilities**, D. Aristizabal Sierra, B. Dutta, D. Kim, D. Snowden-Ifft and L. E. Strigari, Phys. Rev. D **104**, no.3, 033004 (2021)
26. **Probing L_μ - L_τ models with CE ν NS: A new look at the combined COHERENT CsI and Ar data**, H. Banerjee, B. Dutta and S. Roy, Phys. Rev. D **104**, no.1, 015015 (2021)
27. **Low-mass inelastic dark matter direct detection via the Migdal effect**, N. F. Bell, J. B. Dent, B. Dutta, S. Ghosh, J. Kumar and J. L. Newstead, Phys. Rev. D **104**, no.7, 7 (2021)
28. **Gamma ray signals from cosmic ray scattering on axionlike particles**, J. B. Dent, B. Dutta, J. L. Newstead, A. Rodriguez, I. M. Shoemaker, Z. Tabrizi and N. T. Arellano, Phys. Rev. D **104**, no.5, 055044 (2021)
29. **Axionlike Particles at Future Neutrino Experiments: Closing the Cosmological Triangle** V. Brdar, B. Dutta, W. Jang, D. Kim, I. M. Shoemaker, Z. Tabrizi, A. Thompson and J. Yu, Phys. Rev. Lett. **126**, no.20, 201801 (2021)
30. **Supersymmetric gauged $U(1)_{L_\mu-L_\tau}$ model for electron and muon $(g-2)$ anomaly** H. Banerjee, B. Dutta and S. Roy, JHEP **03**, 211 (2021)
31. **Present and future status of light dark matter models from cosmic-ray electron upscattering** J. B. Dent, B. Dutta, J. L. Newstead, I. M. Shoemaker and N. T. Arellano, Phys. Rev. D **103**, 095015 (2021)
32. **Constraints on MeV dark matter and primordial black holes: Inverse Compton signals at the SKA** B. Dutta, A. Kar and L. E. Strigari, JCAP **03**, 011 (2021)
33. **Opportunities for probing $U(1)_{T_{3R}}$ with light mediators** B. Dutta, S. Ghosh and J. Kumar, Phys. Rev. D **102**, no.7, 075041 (2020)
34. **Nonlocal effects from boosted dark matter in indirect detection** K. Agashe, S. J. Clark, B. Dutta and Y. Tsai, Phys. Rev. D **103**, no.8, 083006 (2021)
35. **Inverse Primakoff Scattering as a Probe of Solar Axions at Liquid Xenon Direct Detection Experiments** J. B. Dent, B. Dutta, J. L. Newstead and A. Thompson, Phys. Rev. Lett. **125**, no.13, 131805 (2020)
36. **Explaining the XENON1T excess with Luminous Dark Matter** N. F. Bell, J. B. Dent, B. Dutta, S. Ghosh, J. Kumar and J. L. Newstead, Phys. Rev. Lett. **125**, no.16, 161803 (2020)
37. **Explaining $(g-2)_{\mu,e}$, KOTO anomaly and Miniboone excess in an extended Higgs model with sterile neutrinos**, B. Dutta, S. Ghosh, T. Li, Phys. Rev. D **102**, no.5, 055017 (2020).
38. **Coherent Elastic Neutrino-Nucleus Scattering with directional detectors** M. Abdullah, D. Aristizabal Sierra, B. Dutta, L. Strigari, Phys. Rev. D **102**, no.1, 015009 (2020)
39. **A global analysis strategy to resolve neutrino NSI degeneracies with scattering and oscillation data** B. Dutta, R. Lang S. Liao, S. Sinha, L. Strigari, A. Thompson, JHEP **09**, 106 (2020).

40. **Contributions to ΔN_{eff} From the Dark Photon of $U(1)_{T_{3R}}$** B. Dutta, S. Ghosh, J. Kumar, Phys. Rev. D **102**, no.1, 015013 (2020).
41. **New Directions for Axion Searches via Scattering at Reactor Neutrino Experiments** J. Dent, B. Dutta, D. Kim, S. Liao, R. Mahapatra, K. Sinha, A. Thompson, Phys.Rev.Lett. **124** 21, 211804(2020).
42. **Coherent elastic neutrino-nucleus scattering in multi-ton scale dark matter experiments: Classification of vector and scalar interactions new physics signals** D. Aristizabal Sierra, B. Dutta, S. Liao, L. Strigari, Published in JHEP **1912** (2019) 124
43. **Leptonic Scalars at the LHC** A. de Gouvêa, P.S. Bhupal Dev, B. Dutta, T. Ghosh, T. Han, Y. Zhang, e-Print: arXiv:1910.01132 (submitted to JHEP)
44. **$(g-2)_{\mu,e}$ and the ANITA anomalous events in a three-loop neutrino mass model** M. Abdullah, B. Dutta, S. Ghosh, T. Li, Phys. Rev. D **100** (2019) no.11, 115006
45. **Bounds on Cosmic Ray-Boosted Dark Matter in Simplified Models and its Corresponding Neutrino-Floor** J. Dent, B. Dutta, J. Newstead, I. Shoemaker, e-Print: arXiv:1907.03782 (accepted for publication in Physical Review D).
46. **Dark matter signals from timing spectra at neutrino experiments** B. Dutta, D. Kim, S. Liao, Jong-Chul Park, S. Shin, L. Strigari, Phys.Rev.Lett. **124**12, 121802 (2020).
47. **A sub-GeV dark matter model**, B. Dutta, S. Ghosh and J. Kumar, Phys. Rev. D **100**, 075028 (2019)
48. **Searching for Beyond the Standard Model Physics with COHERENT Energy and Timing Data**, B. Dutta, S. Liao, S. Sinha and L. E. Strigari, Phys. Rev. Lett. **123**, no. 6, 061801 (2019)
49. **Indirect detection of the partial p wave via the s wave in the annihilation cross section of dark matter** S. J. Clark, J. B. Dent, Bhaskar Dutta and L. E. Strigari, Phys. Rev. D **99**, no. 8, 083003 (2019)
50. **Electron $g-2$ with flavor violation in MSSM**, Bhaskar Dutta and Y. Mimura, Phys. Lett. B **790**, 563 (2019)
51. **A theory of $R(D^*, D)$ anomaly with right-handed currents**, K.S. Babu, Bhaskar Dutta, Rabindra Mohapatra, JHEP 1901 (2019) 168
52. **Neutrino scattering and B anomalies from hidden sector portals**, Alakabha Datta, Bhaskar Dutta, Shu Liao, Danny Marfatia, Louis E. Strigari, JHEP 1901 (2019) 091
53. **Probing a simplified, W' model of $R(D, D^*)$ anomalies using b-tags, τ leptons and missing energy**, Mohammad Abdullah, Julian Calle, Bhaskar Dutta, Andrés Flórez, Diego Restrepo, Phys.Rev. D **98** (2018) no.5, 055016
54. **Three-loop neutrino masses via new massive gauge bosons from E6 GUT**, Bhaskar Dutta, Sumit Ghosh, Ilia Gogoladze, Tianjun Li, Phys.Rev. D **98** (2018) no.5, 055028
55. **A cosmological pathway to testable leptogenesis**, Bhaskar Dutta, Chee Sheng Fong, Esteban Jimenez, Enrico Nardi, JCAP 1810 (2018) no.10, 025

56. **21cm Limits on Decaying Dark Matter and Primordial Black Holes**, S. Clark, Bhaskar Dutta, Y. Gao, Y. Ma, L. Strigari, Phys. Rev. D98 (2018) no.4, 043006.
57. **Coherent elastic neutrino nucleus scattering as a probe of a Z' through kinetic and mass mixing effects**, Mohammad Abdullah, James B. Dent, Bhaskar Dutta, Gordon L. Kane, Shu Liao, Louis E. Strigari, Phys. RevD. 98 (2018) no.1, 015005.
58. **Prospects for discovery and spin discrimination of dark matter in Higgs portal DM models and their extensions at 100 TeV pp collider**, Bhaskar Dutta, Teruki Kamon, P. Ko, Jinmian Li, Eur.Phys.J. C78 (2018) no.7, 595
59. **A Simple Testable Model of Baryon Number Violation: Baryogenesis, Dark Matter, Neutron-Antineutron Oscillation and Collider Signals**, Rozbeh u Allahverdi, P. S. B. Dev and Bhaskar Dutta, Phys. Lett. B 02, 019 (2018)
60. **Accelerator and reactor complementarity in coherent neutrino scattering**, James Dent, Bhaskar Dutta, Shu Liao, Jayden Newstead, Louis Strigari, Joel Walker, Phys.Rev. D97 (2018) no.3, 035009.
61. **Bottom-quark Fusion Processes at the LHC for Probing Z' Models and B-meson Decay Anomalies**, Mykhailo Dalchenko, Bhaskar Dutta, Ricardo Eusebi, Peisi Huang, Teruki Kamon, Denis Rathjens, Phys. Rev. D97 (2018) no.7, 075035.
62. **Vector Boson Fusion in the Inert Doublet Model**, Bhaskar Dutta, Guillermo Palacio, Jose D. Ruiz-Alvarez, Diego Restrepo, Phys.Rev. D97 (2018) no.5, 055045.
63. **Dark Matter Annihilation into Four-Body Final States and Implications for the AMS Antiproton Excess**, Steven J. Clark, Bhaskar Dutta, Louis E. Strigari, Phys.Rev. D97 (2018) no.2, 023003.
64. **D-brane Disformal Coupling and Thermal Dark Matter**, Bhaskar Dutta, Esteban Jimenez, Ivonne Zavala, Phys.Rev. D96 (2017) no.10, 103506
65. **Probing Squeezed Bino-Slepton Spectra with the Large Hadron Collider**, Bhaskar Dutta, Kebur Fantahun, Ashen Fernando, Tathagata Ghosh, Jason Kumar, Pearl Sandick, Patrick Stengel, Joel W. Walker, Phys.Rev. D96 (2017) no.7, 075037
66. **Non-standard interactions of solar neutrinos in dark matter experiments**, Bhaskar Dutta, Shu Liao, Louis Strigari and Joel Walker, Phys.Lett. B773 (2017) 242-246..
67. **Dark Matter Relics and the Expansion Rate in Scalar-Tensor Theories**, Bhaskar Dutta, Esteban Jimenez and Ivonne Zavala, JCAP 1706 (2017) no.06, 032.
68. **Probing light mediators at ultra-low threshold energies with coherent elastic neutrino-nucleus scattering** James Dent, Bhaskar Dutta, Shu Liao, Jay Newstead, Louis Strigari and Joel Walker, Phys.Rev. D96 (2017) no.9, 095007.
69. **Planck Constraint on Relic Primordial Black Holes**, Steven Clark, Bhaskar . Dutta, Yu Gao, Louis Strigari and Scott Watson, Phys. Rev. D **95**, no. 8, 083006 (2017).
70. **Dark matter, light mediators, and the neutrino floor**, James Dent, Bhaskar Dutta, Jayden Newstead and Louis Strigari, Phys. Rev. D, 95, no. 5, 051701 (2017).

71. **Light Higgsino Dark Matter from Non-thermal Cosmology**, Luis Aparicio, Michele Cicoli, Bhaskar Dutta, Franceso Muia and Farnenado Quevedo, JHEP 1611, 038 (2016).
72. **Exploring the Jet Multiplicity in the 750 GeV Diphoton Excess**, Mykhailo Dalchenko, Bhaskar Dutta, Yu Gao, Tathagata Ghosh, Teruki Kamon, Phys.Lett. B761 (2016) 77
73. **An SU(6) GUT Origin of the TeV-Scale Vector-like Particles Associated with the 750 GeV Diphoton Resonance**, Bhaskar Dutta, Yu Gao, Tathagata Ghosh, Ilia Gogoladze, Tianjun Li, Joel W. Walker, Phys.Rev. D94 (2016) 0360063.
74. **Interpretation of the diphoton excess at CMS and ATLAS**, Bhaskar Dutta, Yu Gao, Tathagata Ghosh, Ilia Gogoladze, Tianjun Li, Phys.Rev. D93 (2016), 055032
75. **Effective field theory treatment of the neutrino background in direct dark matter detection experiments**, James Dent, Bhaskar Dutta, Louis E. Strigari, Phys.Rev. D93 (2016), 075018
76. **Sensitivity to oscillation with a sterile fourth generation neutrino from ultra-low threshold neutrino-nucleus coherent scattering** Bhaskar Dutta, Yu Gao, Rupak Mahapatra, Nader Mirabolfathi, Louis Strigari and Joel Walker, Phys. Rev. D **94**, no. 9, 093002 (2016)
77. **Probing the Goldstone equivalence theorem in Heavy Weak Doublet Decays**, Bhaskar Dutta, Yu Gao, David Sanford, Joel W. Walker, Phys.Rev. D93 (2016), 055020
78. **Sensitivity to Z-prime and nonstandard neutrino interactions from ultralow threshold neutrino-nucleus coherent scattering**, Bhaskar Dutta, Rupak Mahapatra, Louis E. Strigari, Joel W. Walker, Phys.Rev. D93 (2016) 1, 013015
79. **Confronting Galactic center and dwarf spheroidal gamma-ray observations with cascade annihilation models**, Bhaskar Dutta, Yu Gao, Tathagata Ghosh, Louis E. Strigari, Phys.Rev. D92
80. **Probing Compressed Bottom Squarks with Boosted Jets and Shape Analysis**, Bhaskar Dutta, Alfredo Gurrola, Kenichi Hatakeyama, Will Johns, Teruki Kamon, Paul Sheldon, Kuver Sinha, Sean Wu, Zhenbin Wu, Phys.Rev. D92 (2015) 9, 095009
81. **Explaining the CMS dilepton mass endpoint in the NMSSM**, Bhaskar Dutta, Yu Gao, Tathagata Ghosh, Teruki Kamon, Nikolay Kolev, Phys.Lett. B749 (2015) 326-330
82. **Neutralinos and Stopped at the LHC in Light of Muon(g-2)**, M. Adeel Ajaib, Bhaskar Dutta, Tathagata Ghosh, Ilia Gogoladze, Qaisar Shafi, Phys.Rev. D92 (2015) 7, 075033
83. **Leptoquark implication from the CMS and IceCube experiments**, Bhaskar Dutta, Yu Gao, Tianjun Li, Carsten Rott, Louis E. Strigari, Phys.Rev. D91 (2015) 125015
84. **Non-thermal CMSSM with a 125 GeV Higgs**, Luis Aparicio, Michele Cicoli, Bhaskar Dutta, Sven Krippendorf, Anshuman Maharana, Francesco Muia, Fernando Quevedo, JHEP 1505 (2015) 098
85. **Enhancement of $\text{Br}(B_d \rightarrow \mu^+ \mu^-)/\text{Br}(B_s \rightarrow \mu^+ \mu^-)$ in supersymmetric unified models**, Bhaskar Dutta, Yukihiko Mimura, Phys.Rev. D91 (2015) 9, 095011

86. **Third Generation in Cascade Decays**, Bhaskar Dutta, Tianjun Li, James A. Maxin, Dimitri V. Nanopoulos, Kuver, Joel W. Walker, Phys.Rev. D91 (2015) 11, 115021
87. **Dark Matter from Late Invisible Decays to/of Gravitinos**, Rouzbeh Allahverdi, Bhaskar Dutta, Farinaldo S. Queiroz, Louis E. Strigari, Mei-Yu Wang, Phys.Rev. D91 (2015) 5, 055033.
88. **Light Higgsino Decays as a Probe of the NMSSM**, Bhaskar Dutta, Yu Gao, Bibhushan Shakya, Phys.Rev. D91 (2015) 3, 035016
89. **Probing Compressed Sleptons at the LHC using Vector Boson Fusion Processes**, Bhaskar Dutta, Tathagata Ghosh, Alfredo Gurrola, Will Johns, Teruki, Paul Sheldon, Kuver Sinha, Kechen Wang, Phys.Rev. D91 (2015) 5, 055025
90. **Just enough inflation: power spectrum modifications at large scales**, Michele Cicoli, Sean Downes, Bhaskar Dutta, Francisco G. Pedro, Alexander Westphal, JCAP 1412 (2014) 12, 030
91. **Distinguishing Neutrino Mass Hierarchies using Dark Matter Annihilation Signals at IceCube** Rouzbeh Allahverdi, Bhaskar Dutta, Dilip Ghosh, Brad Knockel and Ipsit Saha, JCAP **1512**, no. 12, 003 (2015)
92. **3.5 keV X-ray line and R-Parity Conserving Supersymmetry**, Bhaskar Dutta, Ilia Gogoladze, Rizwan Khalid, Qaisar Shafi , JHEP 1411 (2014) 018
93. **Dark matter indirect detection signals and the nature of neutrinos in the supersymmetric $U(1)(B-L)$ extension of the standard model**, Rouzbeh Allahverdi, Sheldon S. Campbell, Bhaskar Dutta, Yu Gao, Phys.Rev. D90 (2014) 7, 073002
94. **Exploring the doubly charged Higgs boson of the left-right symmetric model using vector boson fusionlike events at the LHC**, Bhaskar Dutta, Ricardo Eusebi, Yu Gao, Tathagata Ghosh, Teruki Kamon, Phys.Rev. D90 (2014) 5, 055015
95. **keV Photon Emission from Light Nonthermal Dark Matter**, Rouzbeh Allahverdi, Bhaskar Dutta, Yu Gao, Phys.Rev. D89 (2014) 127305
96. **Correlation between Dark Matter and Dark Radiation in String Compactifications**, Rouzbeh Allahverdi, Michele Cicoli, Bhaskar Dutta, Kuver Sinha, JCAP 1410 (2014) 002
97. **Probing Light Nonthermal Dark Matter at the LHC**, Bhaskar Dutta, Yu Gao, Teruki Kamon, Phys.Rev. D89 (2014) 9, 096009
98. **Probing compressed top squark scenarios at the LHC at 14 TeV**, Bhaskar Dutta, Will Flanagan, Alfredo Gurrola, Will Johns, Teruki Kamon, Paul Sheldon, Kuver Sinha, Kechen Wang, Sean Wu, Phys.Rev. D90 (2014) 9, 095022
99. **Power Suppression at Large Scales in String Inflation**, Michele Cicoli, Sean Downes, Bhaskar Dutta, JCAP 1312 (2013) 007
100. **Non-thermal Dark Matter in String Compactifications**, Rouzbeh Allahverdi, Michele Cicoli, Bhaskar Dutta, Kuver Sinha. Phys.Rev. D88 (2013) 095015

101. **A Supersymmetric Model for Dark Matter and Baryogenesis Motivated by the Recent CDMS Result**, Rouzbeh Allahverdi, Bhaskar Dutta, Rabindra N. Mohapatra, Kuver Sinha, Phys.Rev.Lett. 111 (2013) 051302
102. **Probing Dark Matter at the LHC using Vector Boson Fusion Processes**, Andres G. Delannoy, Bhaskar Dutta, Alfredo Gurrola, Will Johns, Teruki Kamon, Eduardo Luiggi, Andrew Melo, Paul Sheldon, Kuver Sinha, Kechen Wang, Phys.Rev.Lett. 111 (2013) 061801
103. **Natural GeV Dark Matter and the Baryon-Dark Matter Coincidence Puzzle**, Rouzbeh Allahverdi, Bhaskar Dutta, Phys.Rev. D88 (2013) 2, 023525
104. **Proton decay and $\mu \rightarrow e\gamma$ connection in a renormalizable SO(10) GUT for neutrinos**, Bhaskar Dutta, Yukihiro Mimura, Rabindra N. Mohapatra. Phys.Rev. D87 (2013) 7, 075008
105. **Successful Supersymmetric Dark Matter with Thermal Over/Under-Abundance from Late Decay of a Visible Sector Scalar**,Rouzbeh Allahverdi, Bhaskar Dutta, Kuver Sinha, Phys.Rev. D87 (2013) 075024
106. **Inflection Points and the Power Spectrum**, Sean Downes, Bhaskar Dutta, Phys.Rev. D87 (2013) 8, 083518
107. **Vector Boson Fusion Processes as a Probe of Supersymmetric Electroweak Sectors at the LHC**, Bhaskar Dutta, Alfredo Gurrola, Will Johns, Teruki Kamon, Paul Sheldon, Kuver Sinha. Phys.Rev. D87 (2013) 035029
108. **Non-thermal Higgsino Dark Matter: Cosmological Motivations and Implications for a 125 GeV Higgs**, Rouzbeh Allahverdi, Bhaskar Dutta, Kuver Sinha.; Phys.Rev. D86 (2012) 095016
109. **Searching for Top Squarks at the LHC in Fully Hadronic Final State**, Bhaskar Dutta , Teruki Kamon, Nikolay Kolev, Kuver Sinha, Kechen Wang, Phys.Rev. D86 (2012) 075004
110. **Holomorphic Bisectional Curvatures, Supersymmetry Breaking, and Affleck-Dine Baryogenesis**, Bhaskar Dutta, Kuver Sinha, Phys.Rev. D86 (2012) 103517
111. **Attractors, Universality and Inflation**, Sean Downes, Bhaskar Dutta, Kuver Sinha Phys.Rev. D86 (2012) 103509
112. **Lepton Flavor Violation at the Large Hadron Collider**, Rouzbeh Allahverdi, Bhaskar Dutta, Teruki Kamon, Abram Krislock, Published in Phys.Rev. D86 (2012) 015026
113. **θ_{13} and Proton Decay in a Minimal $SO(10) \times S_4$ model of Flavor**, P.S. Bhupal Dev, Bhaskar Dutta, R.N. Mohapatra, Matthew Severson, Phys.Rev. D86 (2012) 035002
114. **Diagnosis of Supersymmetry Breaking Mediation Schemes by Mass Reconstruction at the LHC**, Bhaskar Dutta, Teruki Kamon, Abram Krislock, Kuver Sinha, Kechen Wang; Phys.Rev. D85 (2012) 115007
115. **Extragalactic and galactic gamma-rays and neutrinos from annihilating dark matter**, Rouzbeh Allahverdi, Sheldon Campbell, Bhaskar Dutta ; Phys.Rev. D85 (2012) 035004

116. $B_s \rightarrow \mu^+ \mu^-$ in Supersymmetric Grand Unified Theories, Bhaskar Dutta, Yukihiro Mimura, Yudi Santoso, Phys.Lett. B706 (2011) 188-194
117. **Constructing Flat Inflationary Potentials in Supersymmetry**, Rouzbeh Allahverdi, Sean Downes, Bhaskar Dutta, Phys.Rev. D84 (2011) 101301
118. **Effects of P-wave Annihilation on the Angular Power Spectrum of Extragalactic Gamma-rays from Dark Matter Annihilation**, Sheldon Campbell, Bhaskar Dutta , Phys.Rev. D84 (2011) 075004
119. **Catastrophic Inflation**, Sean Downes, Bhaskar Dutta, Kuver Sinha ;Phys.Rev. D84 (2011) 063524
120. **Dimuon CP Asymmetry in B Decays and Wjj Excess in Two Higgs Doublet Models**, Bhaskar Dutta, Shaaban Khalil, Yukihiro Mimura, Qaisar Shafi, JHEP 1205 (2012)
121. **Bi-Event Subtraction Technique at Hadron Colliders**, Bhaskar Dutta, Teruki Kamon, Nikolay Kolev, Abram Krislock, Phys.Lett. B703 (2011) 475
122. **Asymmetric Dark Matter from Hidden Sector Baryogenesis**, Bhaskar Dutta, Jason Kumar, Phys.Lett. B699 (2011) 364
123. **Cladogenesis: Baryon-Dark Matter Coincidence from Branchings in Moduli Decay**, Rouzbeh Allahverdi, Bhaskar Dutta, Kuver Sinha, Phys.Rev. D83 (2011) 083502
124. **Effects of Velocity-Dependent Dark Matter Annihilation on the Energy Spectrum of the Extragalactic Gamma-ray Background**, Sheldon Campbell, Bhaskar Dutta, Ei-ichiro Komatsu, Phys.Rev. D82 (2010) 095007
125. **Determination of Non-Universal Supergravity Models at the Large Hadron Collider**, Bhaskar Dutta, Teruki Kamon, Abram Krislock, Nikolay Kolev, Youngdo Oh, Phys.Rev. D82 (2010) 115009
126. **Schizophrenic Neutrinos and ν -less Double Beta Decay**, Rouzbeh Allahverdi, Bhaskar Dutta, Rabindra N. Mohapatra, Phys.Lett. B695 (2011) 181-184
127. **Affleck-Dine Baryogenesis in Effective Supergravity**, Bhaskar Dutta, Kuver Sinha, Phys.Rev. D82 (2010) 095003
128. **CP Violating Lepton Asymmetry from B Decays in Supersymmetric Grand Unified Theories**, Bhaskar Dutta, Yukihiro Mimura, Yudi Santoso; Phys.Rev. D82 (2010) 055017
129. **Baryogenesis and Late-Decaying Moduli**, Rouzbeh Allahverdi, Bhaskar Dutta, Kuver Sinha, Phys.Rev. D82 (2010) 035004
130. **MSSM inflation, dark matter, and the LHC.**Rouzbeh Allahverdi, Bhaskar Dutta, Yudi Santoso, Phys.Rev. D82 (2010) 035012
131. **Models of supersymmetric dark matter and their predictions in light of CDMS**, Rouzbeh Allahverdi, Bhaskar Dutta, Yudi Santoso, Phys.Lett. B687 (2010) 225
132. **Low-scale Inflation and Supersymmetry Breaking in Racetrack Models**, Rouzbeh Allahverdi, Bhaskar Dutta, Kuver Sinha, Phys.Rev. D81 (2010) 083538

133. **An SO(10) Grand Unified Theory of Flavor**, Bhaskar Dutta, Yukihiro Mimura, Rabindra Mohapatra, JHEP 1005 (2010) 034
134. **Origin of Quark-Lepton Flavor in SO(10) with Type II Seesaw**, Bhaskar Dutta, Yukihiro Mimura, Rabindra Mohapatra, Phys. Rev. D80 (2009) 095021.
135. **Correlation between direct dark matter detection and $\text{Br}(B_s \rightarrow \mu\mu)$ with a large phase of B_s - anti- B_s mixing**, Bhaskar Dutta, Yukihiro Mimura, Yudi Santoso, Phys.Rev.D80 (2009) 095005.
136. **Prospects for Indirect Detection of Sneutrino Dark Matter with IceCube**, Rouzbeh Allahverdi, S. Bornhauser, Bhaskar Dutta, K. Richardson-McDaniel, Phys.Rev.D80 (2009) 055026.
137. **Mirage in the Sky: Non-thermal Dark Matter, Gravitino Problem, and Cosmic Ray Anomalies**, Bhaskar Dutta, L. Leblond, K. Sinha, Phys. Rev. D80 (2009) 035014.
138. **Sneutrino Dark Matter and the Observed Anomalies in Cosmic Rays**, R. Allahverdi, Bhaskar Dutta, K. Richardson-McDaniel, Yudi Santoso, Phys. Lett. B677 (2009) 172.
139. **Supersymmetry at the LHC**, Bhaskar Dutta, Eur. Phys. J.C59 (2009) 345.
140. **Penguin Contribution to the Phase of B(s) - anti-B(s) Mixing and $B_s \rightarrow \mu\mu$ in Grand Unified Theories**, Bhaskar Dutta, Yukihiro Mimura, Phys. Lett. B677 (2009) 164.
141. **A Supersymmetric B-L Dark Matter Model and the Observed Anomalies in the Cosmic Rays**, R. Allahverdi, Bhaskar Dutta, K. Richardson-McDaniel, Phys. Rev. D79 (2009) 075005.
142. **Supersymmetry Signals of Supercritical String Cosmology at the Large Hadron Collider**, Bhaskar Dutta, A. Gurrola, T. Kamon, A. Krislock, A. Lahanas, N. Mavromatos, D. Nanopoulos, Phys.Rev.D79 (2009) 055002.
143. **Large Phase of B(s)- anti-B(s) Mixing in Supersymmetric Grand Unified Models**, Bhaskar Dutta and Yukihiro Mimura, Phys. Rev. D 78 (2008) 071702 (Rapid Communication).
144. **Attraction towards an inflection point inflation**, R. Allahverdi, Bhaskar Dutta, A. Mazumdar, Phys. Rev. D 78 (2008) 063507.
145. **Tachyon mediated non-Gaussianity**, Bhaskar Dutta, J. Kumar and L. Leblond, Phys. Rev. D 78 (2008) 083522.
146. **Determining the Dark Matter Relic Density in the mSUGRA $\tilde{\chi}_1^0 - \tilde{\tau}_1$ Co-Annihilation Region at the LHC**, R. Arnowitt, Bhaskar Dutta, A. Gurrola, T. Kamon, A. Krislock, D. Toback, Phys. Rev. Lett. 100, (2008) 231802.
147. **Proton decay and flavor violating thresholds in SO(10) models**, Bhaskar Dutta, Yukihiro Mimura, R. Mohapatra, Phys. Rev. Lett., (100) (2007) 181801.
148. **Unifying inflation and dark matter with neutrino masses**, R. Allahverdi, Bhaskar Dutta, A. Mazumdar, Phys. Rev. Lett. 99 (2007) 261301.

149. **Constraint from D - anti-D Mixing in Left-Right Symmetric Models** Bhaskar Dutta, Yukihiro Mimura, Phys. Rev. D77 (2008) 051701 (Rapid Communication).
150. **No-Scale Solution to Little Hierarchy**, Bhaskar Dutta, Yukihiro Mimura and D. V. Nanopoulos, Phys. Lett. B656 (2007) 199.
151. **An Inflationary Scenario in Intersecting Brane Models**, Bhaskar Dutta, Jason Kumar and L. Leblond, JHEP 0707 (2007) 045.
152. **Probing the parameter space for an MSSM inflation and the neutralino dark matter**, R. Allahverdi, Bhaskar Dutta, A. Mazumdar, Phys. Rev. D75 (2007) 075018.
153. **Landscape of Little Hierarchy**, Bhaskar Dutta and Yukihiro Mimura, Phys. Lett. B648 (2007) 357.
154. **Modification of the Unitarity Relation for $\sin 2\beta$ -V(ub) in Supersymmetric Models**, Bhaskar Dutta and Yukihiro Mimura, Phys. Rev. D75 (2007) 015006.
155. **Hidden Sector Baryogenesis**, Bhaskar Dutta and J. Kumar, Phys. Lett. B643 (2007) 284.
156. **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, Bhaskar Dutta, T. Kamon, N. Kolev, P. Simeon, D. Toback and P. Wagner, Phys. Lett. B649 (2007) 73.
157. **B(s)- anti-B(s) Mixing in Supersymmetric Grand Unified Models**, Bhaskar Dutta and Yukihiro Mimura, Phys. Rev. Lett. 97 (2006) 241802.
158. **B(s)- anti-B(s) Mixing and its Implication for b to s Transitions in Supersymmetry**, R. Arnowitt, Bhaskar Dutta, B. Hu, S. Oh, Phys. Lett. B641 (2006) 305.
159. **Theory of Neutrinos: A White paper**, Bhaskar Dutta et. al., Rept. Prog. Phys.70 (2007) 1757. .
160. **Detection of SUSY in the Stau-Neutralino Coannihilation Region at the LHC**, R. Arnowitt, Bhaskar Dutta, T. Kamon, N. Kolev, D. Toback, Phys. Lett. B639 (2006) 46.
161. **Lepton Flavor Violation in Intersecting D-brane Models**, Bhaskar Dutta, Yukihiro Mimura, Phys. Lett. B638 (2006) 239.
162. **Properties of Fermion Mixings in Intersecting D-Brane Models**, Bhaskar Dutta, Yukihiro Mimura, Phys. Lett. B633 (2006) 761.
163. **Observable $N - \bar{N}$ Oscillation in High Scale Seesaw Models**, Bhaskar Dutta, Yukihiro Mimura and R.N. Mohapatra, Phys. Rev. Lett. 96 (2006) 061801.
164. **Supersymmetry parameter analysis: SPA convention and project**, Bhaskar Dutta et al., Eur.Phys.J. C46 (2006) 43.
165. **The $B \rightarrow k\pi$ Puzzle and Supersymmetric Models**, R. Arnowitt, Bhaskar Dutta, B. Hu and S. Oh, Phys. Lett. B633 (2006) 748.
166. **Neutrino Mixing Predictions of a Minimal SO(10) Model with Suppressed Proton Decay**, Bhaskar Dutta, Yukihiro Mimura and R.N. Mohapatra, Phys. Rev. D72 (2005) 075009.

167. **The Stau-Neutralino Co-annihilation Region in an International Linear Collider**, V. Khotilovich, R. Arnowitt, Bhaskar Dutta, T. Kamon, Phys. Lett. B618 (2005) 182.
168. **Split Supersymmetry in Unified Models**, Bhaskar Dutta and Yukihiro Mimura and R.N. Mohapatra, Phys. Lett. B627 (2005) 145.
169. **Suppressing Proton Decay in the Minimal SO(10) Model**, Bhaskar Dutta, Yukihiro Mimura and R.N. Mohapatra, Phys. Rev. Lett. 94, (2005) 091804.
170. **Neutrino Masses and Mixings in a Predictive SO(10) Model with CKM CP Violation**, Bhaskar Dutta, Yukihiro Mimura and R.N. Mohapatra, Phys. Lett. B603 (2004) 35.
171. **Five Dimensional Cosmology in Horava-Witten M-Theory**, R. Arnowitt, J. Dent and Bhaskar Dutta, Phys. Rev. D70, (2004) 126001.
172. **CKM CP Violation in a Minimal SO(10) Model for Neutrinos and its Implications**, Bhaskar Dutta, Yukihiro Mimura and R.N. Mohapatra, Phys. Rev. D69, (2004) 115014.
173. **CP Asymmetries of $B \rightarrow \phi K$ AND $B \rightarrow \eta' K$ Decays Using a Global Fit in QCD Factorization** Bhaskar Dutta, C.S. Kim, S. Oh and Guo-huai Zhu, Phys. Lett. B601 (2004) 144.
174. **An Analysis of $B \rightarrow \eta' K$ Decays Using a Global Fit in QCD Factorization** Bhaskar Dutta, C.S. Kim, S. Oh and Guo-huai Zhu, Eur. Phys. J.C37, (2004) 273.
175. **Yukawa Textures, Neutrino Masses and Horava-Witten M Theory**, R. Arnowitt, Bhaskar Dutta and B. Hu, Nucl. Phys. B682, (2004), 347.
176. **Lepton Electric Dipole Moments, Supersymmetric Seesaw and Leptogenesis Phase**, Bhaskar Dutta and R. N. Mohapatra, Phys. Rev. D68, (2003), 113008.
177. **$B^0 \rightarrow \phi K_s$ in SUGRA models with CP Violation**, R. Arnowitt, Bhaskar Dutta and B. Hu, Phys. Rev. D68, (2003), 075008.
178. **Lepton Flavor Violation and Neutrino Mixings in a 3 X 2 Seesaw Model**, Bhaskar Dutta and R.N. Mohapatra, Phys. Rev. D68, (2003), 056006.
179. **Sleptogenesis** By R. Allahverdi, Bhaskar Dutta and A. Mazumdar, Phys. Rev. D67, (2003), 123515.
180. **Lepton Flavor Violation and the Origin of the Seesaw Mechanism**, K.S. Babu, Bhaskar Dutta and R.N. Mohapatra, Phys. Rev. D67, (2003), 076006.
181. **A Consistent Resolution of Possible Anomalies in $B^0 \rightarrow \phi K_S$ and $B^+ \rightarrow \eta' K^+$ Decays**, Bhaskar Dutta, C. S. Kim and S. Oh, Phys. Rev. Lett.90, (2003), 011801.
182. **Detection of $B_s \rightarrow \mu^+ \mu^-$ at the Tevatron Run II and Constraints on the SUSY Parameter Space**, R. Arnowitt, Bhaskar Dutta, T. Kamon, M. Tanaka, Phys. Lett. B538, (2002) 121.
183. **Charmless Non-Leptonic B Decays and R-parity Violating Supersymmetry**, Bhaskar Dutta, C. S. Kim and S. Oh, Phys. Lett. B535, (2002) 249.

184. **Solving the Strong CP and the SUSY Phase Problems With Parity Symmetry**, K.S. Babu, Bhaskar Dutta and R.N. Mohapatra, Phys. Rev. D65 (2001) 016005.
185. **SUSY Phases, the Electron Electric Dipole Moment and the Muon Magnetic Moment**, R. Arnowitt, Bhaskar Dutta and Yudi Santoso, Phys. Rev. D64 (2001) 113010.
186. **Muon $g-2$, Dark Matter Detection and Accelerator Physics**, R. Arnowitt, Bhaskar Dutta, B. Hu and Yudi Santoso, Phys. Lett. B505, (2001) 177.
187. **Coannihilation Effects in Supergravity and D-Brane Models**, R. Arnowitt, Bhaskar Dutta and Yudi Santoso, Nucl. Phys. B 606, (2001) 59.
188. **Prospect for Searches for Gluinos and Squarks at a Tevatron Tripler**, V. Krutelyov, R. Arnowitt, Bhaskar Dutta, T. Kamon, P. McIntyre and Yudi Santoso, Phys. Lett. B505, (2001) 161.
189. **Enhanced Electric Dipole Moment of the Muon in the Presence of Large Neutrino Mixing**, K.S. Babu, Bhaskar Dutta and R.N. Mohapatra, Phys. Rev. Lett. 85, (2000) 5064.
190. **Yukawa Textures in Horava-Witten M Theory**, R. Arnowitt and Bhaskar Dutta, Nucl. Phys. B592, (2000) 143.
191. **Neutralino Proton cross sections in supergravity models**, E. Accomando, R. Arnowitt, Bhaskar Dutta, Yudi Santoso, Nucl. Phys. B585, (2000) 124.
192. **Charmless hadronic B decays and the recent CLEO data**, Bhaskar Dutta and S. Oh, Phys. Rev. D63 (2001) 054016.
193. **CP violating Phases, Nonuniversal Soft Breaking and D-Brane Models**, E. Accomando, R. Arnowitt and Bhaskar Dutta, Phys. Rev. D61, (2000) 075010.
194. **The Tevatron TRIPLER: How to Upgrade the FERMILAB Tevatron for the Higgs Boson and Supersymmetry**, P. McIntyre, E. Accomando, R. Arnowitt, Bhaskar Dutta, T. Kamon and A. Sattarov, hep-ex/9908052.
195. **Grand Unification Scale CP violating Phases and the Electric Dipole Moment**, E. Accomando, R. Arnowitt and Bhaskar Dutta, Phys. Rev. D61, (2000) 115003.
196. **Seesaw Constrained MSSM, Solution to the SUSY CP Problem and a Supersymmetric Explanation of ϵ'/ϵ** , K.S. Babu, Bhaskar Dutta and R.N. Mohapatra, Phys. Rev. D61(2000) 091701R.
197. **Up Down Unification, Neutrino Masses and Rare Lepton Decays**, K.S. Babu, Bhaskar Dutta and R.N. Mohapatra, Phys. Lett. B458, (1999) 93.
198. **Partial Yukawa unification and a Supersymmetric Origin of Flavor Mixing**, K. S. Babu, Bhaskar Dutta and R. N. Mohapatra, Phys. Rev. D60, (1999) 095004.
199. **A Supersymmetric Resolution of the Anomaly in Charmless Nonleptonic B-Decays**, Debajyoti Choudhury, Bhaskar Dutta and Anirban Kundu, Phys. Lett. B456, (1999) 185.
200. **Trilepton Signal of Grand Unified Models at the Tevatron**, E. Accomando, R. Arnowitt and Bhaskar Dutta, Phys. Lett. B475, (2000) 176.

201. **The Signature at the Tevatron for the Light Doubly Charged Higgsino of Supersymmetric Left Right Models**, Bhaskar Dutta, R.N. Mohapatra and D.J. Muller, Phys. Rev. D60, (1999) 095005.
202. **Gauge Mediated Supersymmetry Signals at the Tevatron Involving τ leptons**, Bhaskar Dutta, D. Muller and S. Nandi, Nucl. Phys. B544, (1999) 451.
203. **Phenomenology of Light Remnant Doubly Charged Higgs Fields in the Supersymmetric Left-Right Model**, Bhaskar Dutta and R.N. Mohapatra, Phys. Rev. D59, (1999) 015018.
204. **Branching Ratios and CP Asymmetries of B Decays to a Vector and Pseudoscalar meson**, N.G. Deshpande, Bhaskar Dutta and Sechul Oh, Phys. Lett. B473, (2000) 141.
205. **Multilepton signatures of gauge mediated SUSY breaking at LEP2**, K. Cheung, D.A. Dicus, Bhaskar Dutta and S. Nandi, Phys. Rev. D58, (1998), 015008.
206. **A Critical Study of B Decays to Light Pseudoscalars**, N.G. Deshpande, Bhaskar Dutta and Sechul Oh, Phys. Rev. D57, (1998) 5723.
207. **An Unusual Signal for Supersymmetry at the Tevatron**, Bhaskar Dutta and S. Nandi, hep-ph/9709511.
208. **Impact on SUSY - Breaking Models of the R Parity Violating Squark Interpretation of the HERA Anomaly**, K. Cheung, D.A. Dicus and Bhaskar Dutta, Phys. Rev. D58, (1998) 057705.
209. **Leptoquark Explanation of HERA Anomaly in the Context of Gauge Unification**, N.G. Deshpande and Bhaskar Dutta, Phys. Lett. B424, (1998), 313.
210. **Contact Interaction Explanation of HERA Events and $SU(3)_C \times SU(2)_L \times U(1)_Y$ Invariance**, N.G. Deshpande, Bhaskar Dutta and Xiao-Gang He, Phys. Lett. B408, (1997) 288.
211. **Explaining the HERA Anomaly Without Giving Up R Parity Conservation**, Bhaskar Dutta, R.N. Mohapatra and S. Nandi, Phys. Lett. B412, (1997) 337.
212. **Sparticle Spectroscopy and Phenomenology in a New Class of Gauge Mediated Supersymmetry Breaking Models**, Z. Chacko, Bhaskar Dutta, R.N. Mohapatra and S. Nandi, Phys. Rev. D56, (1997) 5466.
213. **Scalar τ Signal at LEP-2 in Models With Gauge Mediated Supersymmetry Breaking**, D.A. Dicus, Bhaskar Dutta and S. Nandi, Phys. Rev. D56, (1997) 5748.
214. **A New Signature for Gauge Mediated Supersymmetry Breaking**, D.A. Dicus, Bhaskar Dutta and S. Nandi, Phys. Rev. Lett. 78, (1997) 3055.
215. **Constraints From $b \rightarrow s\gamma$ on Gauge Mediated Supersymmetry Breaking Models**, N.G. Deshpande, Bhaskar Dutta and S. Oh, Phys. Rev. D56, (1997) 519.
216. **Texture of Fermion Mass Matrices in Partially Unified Theories**, Bhaskar Dutta and S. Nandi, Phys. Rev. D59, (1999) 013013.

217. **SUSY GUTs Contributions and Model Independent Extractions of CP phases**, N.G. Deshpande, Bhaskar Dutta and S. Oh, Phys. Rev. Lett. 77, (1996) 4499.
218. **Electric Dipole moments and b - τ Unification in the Presence of an Intermediate Scale**, N. G. Deshpande, Bhaskar Dutta and E. Keith, Phys. Lett. B388, (1996) 605.
219. **Towards a viable Grand Unified Model with $M_I \sim M_{String}$ and $M_I \sim 10^{12}\text{GeV}$** , N.G. Deshpande, Bhaskar Dutta and E. Keith, Phys. Lett. B384, (1996) 116.
220. **Intermediate Scale As a Source of Lepton Flavor Violation in SUSY SO(10)**, N. G. Deshpande, Bhaskar Dutta and E. Keith, Phys. Rev. D54, (1996) 730.
221. **Mutual Consideration of $b \rightarrow s\gamma$ and $\mu \rightarrow e\gamma$ in Supersymmetric SO(10) Theory**, T.V. Duong, Bhaskar Dutta and E. Keith, Phys. Lett. B378, (1996) 128.
222. **A new ansatz: Fritzsche Mass Matrices With Least Modification**, Bhaskar Dutta and S. Nandi, Phys. Lett. B366, (1995) 281.
223. **Effects of Supersymmetric Grand Unification Scale Physics on $\Gamma(b \rightarrow s\gamma)$** , Bhaskar Dutta and E. Keith, Phys. Rev. D52, (1995) 6336.
224. **Top Quark Signature in Extended Color Theories**, D.A. Dicus, Bhaskar Dutta and S. Nandi, Phys. Rev. D51, (1995) 6085.
225. **Search For Dilepton Gauge Bosons in Hadron Colliders**, Bhaskar Dutta and S. Nandi, Phys. Lett. B340, (1994) 86.
226. **Test of Goldstone Boson Equivalence Theorem**, Bhaskar Dutta and S. Nandi, Mod. Phys. Lett. A9, (1994) 1025.
227. **Testing Goldstone Boson Equivalence Theorem in Hadron Colliders**, Bhaskar Dutta and S. Nandi, Phys. Rev. D49, (1994) 5798.
228. **Production and Decays of an Extra Z Boson via W^+W^- mode**, Bhaskar Dutta and S. Nandi, Phys. Lett. B315, (1993) 134.