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A Full length research papers:

1. R. M. Godbole, A. Kaushik and A. Misra, “Transverse single-spin asymmetry in the low-virtuality lepton production of open charm as a probe of the gluon Sivers function,” *Phys. Rev. D* **97**, no. 7, 076001 (2018), [arXiv:1709.03074 [hep-ph]].
2. S. Banerjee, G. Blanger, B. Bhattacharjee, F. Boudjema, R. M. Godbole and S. Mukherjee, “Novel signatures for long-lived particles at the LHC,” arXiv:1706.07407 [hep-ph].
3. R. M. Godbole, A. Kaushik, A. Misra, V. Rawoot and B. Sonawane, “Transverse single spin asymmetry in $p+p^\uparrow \rightarrow J/\psi + X$,” *Phys. Rev. D* **96** (2017) no.9, 096025, [arXiv:1703.01991 [hep-ph]].
4. R. K. Barman, G. Belanger, B. Bhattacharjee, R. Godbole, G. Mendiratta and D. Sengupta, “Invisible decay of the Higgs boson in the context of a thermal and nonthermal relic in MSSM,” *Phys. Rev. D* **95** (2017) no.9, 095018, [arXiv:1703.03838 [hep-ph]].
5. V. Arunprasath, R. M. Godbole and R. K. Singh, “Polarization of a top quark produced in the decay of a gluino or a stop in an arbitrary frame,” *Phys. Rev. D* **95** (2017) no.7, 076012, [arXiv:1612.03803 [hep-ph]].
6. R. M. Godbole, G. Mendiratta, A. Shivaji and T. M. P. Tait, (2017) “Mono-jet Signatures of Gluophilic Scalar Dark Matter,” *Phys. Lett. B* **772** (2017) 93, arXiv:1605.04756 [hep-ph].
7. R. M. Godbole, A. Kaushik and A. Misra, “Transverse single spin asymmetry in $p+p^\uparrow \rightarrow D+X$,” *Phys. Rev. D* **94** (2016) no.11, 114022, [arXiv:1606.01818 [hep-ph]].
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9. R. M. Godbole, G. Mendiratta and S. Rindani,(2015) “Looking for bSM physics using top-quark polarization and decay-lepton kinematic asymmetries,” *Phys. Rev. D* **92** (2015) no.9, 094013, [arXiv:1506.07486 [hep-ph]].
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11. G. Belanger, D. Ghosh, R. Godbole and S. Kulkarni, (2015) “Light stop in the MSSM after LHC Run 1,” *JHEP* **1509** (2015) 214, [arXiv:1506.00665 [hep-ph]], cited in the INSPIRE-HEP data base 30 times.
12. V. Errasti Dez, R. M. Godbole and A. Sinha, (2015) “Improvements to the Froissart bound from AdS/CFT,” *Phys. Lett. B* **746** (2015) 285, [arXiv:1504.05754 [hep-ph]].
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15. R. M. Godbole, D. J. Miller, K. A. Mohan and C. D. White, “Jet substructure and probes of CP violation in V_h production,” *JHEP* **1504** (2015) 103, [arXiv:1409.5449 [hep-ph]].
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F.1 Invited plenary talks/reviews published in the proceedings of Symposia, seminars and workshops:

1. R. M. Godbole (2011) “Higgs Physics at the Large Hadron Collider,” Pramana **76**, 767, [arXiv:1105.1555 [hep-ph]].
2. R. M. Godbole (2009) “Supersymmetry and other New Physics at gamma gamma colliders”, arXiv:0910.2106 [hep-ph] Invited talk at Photon 2009, in the Electronic Proceedings of *International Conference on the Structure and Interactions of the Photon: 18th International Workshop on Photon-Photon Collisions: International Workshop on High Energy Photon Linear Colliders, Hamburg, Germany, 11-15 May 2009*, SPIRES Conference C09/05/11.
3. R. M. Godbole (2006) “CP Violation In Supersymmetry, Higgs Sector And The Large Hadron Collider,” Invited talk given at the Workshop on High Energy Physics Phenomenology, WHEPP 9, January 2006, Pramana **67** (2006) 835.
4. R. M. Godbole (2006) “Supersymmetry at the PLC,” Acta Phys. Polon. B **37**, 1135 (2006) [arXiv:hep-ph/0604228], Invited plenary talk presented at the Photon: Its First Hundred Years and the Future, PLC2005 in Kazimeirz, Poland, August 2005.
5. R. M. Godbole (2006) “LHC-ILC synergy,” Acta Phys. Polon. B **37**, 1225 (2006) [arXiv:hep-ph/0604230r], Invited plenary talk presented at the Photon: Its First Hundred Years and the Future, PLC2005, Kazimeirz, Poland, August 2005 .

6. R. M. Godbole (2005) “Synergy between the LHC and the ILC,” arXiv:hep-ph/0501256, Invited plenary talk presented at the 2004 International Linear Collider Workshop, paris, April 2004, To appear in the proceedings.
7. R.M. Godbole (2005) “CP violation in supersymmetry and the LHC,” Czech. J. Phys. **55** (2005) B221 [arXiv:hep-ph/0503088]. Invited plenary talk presented at the LHC 2004, held at Vienna, August 2004.
8. R. M. Godbole (2004) “Photon 2003: A theorist’s summary and outlook”, Summary talk, Nucl. Phys. Proc. Suppl. **126**, 414, Proceedings of *Photon 2003: International Conference on the Structure and Interactions of the Photon and 15th International Workshop on Photon-Photon Collisions, Frascati, Italy, 7-11 Apr 2003*, to be published in Nucl. Phys. Proceedings Supplement, **arXiv:hep-ph/0311188**.
9. R.M. Godbole (2002) “ Being a woman physicist: an Indian perspective”, Proceedings of *The IUPAP International Conference on Women in Physics, Paris, March 2002*, CP628, Eds. B.K. Hartline and D. Li, pp.107-111.
10. R.M. Godbole (2000) “ SUSY and SUSY breaking scale at Linear Collider”, *Physics and Experiments with future linear e^+e^- colliders*, pp. 136-162, Proceedings of the *International Linear Collider Workshop LCWS 2000*, Fermi National Laboratory, Batavia, Oct. 2000, Eds. A. Para and H.E. Fisk.
11. R.M. Godbole (2000) “Supersymmetry at the Linear Colliders: Working Group Summary”, In the Proceedings of *8th Asia Pacific Physics Conference and III ACFA Linear Collider Workshop*, IISc-CTS/19/00, Published by World Scientific, pp. 552-565, Eds. Yeong-Fer Yao *et al.*
12. R.M. Godbole (2000) “Physics Potential of the LHC”, In the Proceedings of *8th Asia Pacific Physics Conference and III ACFA Linear Collider Workshop*, IISc-CTS/18/00, pp. 527-544, Published by World Scientific, Eds. Yeong-Fer Yao *et al.*
13. R.M. Godbole (1999) “ Predictions for higgs and susy higgs properties and their signatures at the hadron colliders,” Proceedings of the *Hadron 99, January 1999, Mumbai, India*, 367-378, Published by World Scientific, Eds. B. Acharya *et al*, **hep-ph 9904381**.
14. R.M. Godbole and G. Pancheri (1998) “Eikonalised Minijet model predictions for photon-induced processes”, Proceedings of *LUND workshop on photon interactions and photon structure*, Aug. 1998, 217-227, Eds. T. Sjostrand and J. Jarsklog, **hep-ph 9903331**.
15. R.M. Godbole (1998) “Beamstrahlung induced minjet backgrounds at future colliders and a model for $\sigma_{\gamma\gamma}^{\text{inel}}$.”, Proceedings of the Workshop on *Quantum Aspects of Beam Physics, Jan. 5 1998 - Jan. 9 1998, Monterey, U.S.A.*, 404-415, Ed. P. Chen, World Scientific, 1999, **hep-ph 9807379**.

16. R.M. Godbole (1994) “Structure of photon and the muon puzzle” BU-TH-94/1, Invited talk presented at the International conference on nonaccelerator particle physics (Jan. 1994, Bangalore, India) pp. 493-507, World Scientific, Ed. R. Cowsik.
17. R.M. Godbole (1994) “Structure of light”, Invited talk presented at the International conference on Bose and 20 th century physics (Dec. 1993, Calcutta, India) Appeared in the Proceedings, Published by Kluwer, Ed. P. Ghose, 14 pp.
18. R.M. Godbole (1991) “New particle search and structure functions: Group report,” *Particle phenomenology in the 90’s*, Proceedings of the Workshop on High Energy Physics Phenomenology II, (Jan. 1991), Calcutta, India, Editors A. Datta, P. Ghose and A. Raychaudhury, published by World Scientific, pp. 328-365.
19. R.M. Godbole (1991) “ Two Gauge Boson Physics at eP and e^+e^- colliders ”, *Particle phenomenology in the 90’s*, Proceedings of the Workshop on High Energy Physics Phenomenology II, (Jan. 1991), Calcutta, India, pp. 154, Editors A. Datta, P. Ghose and A. Raychaudhury, published by World Scientific, pp. 154-192.
20. R.M. Godbole (1989) “Heavy flavour and Supersymmetry: Group report ”, *Phenomenology of the standard model and beyond* Proceedings of phenomenology workshop, Bombay (India) (Jan. 1989) , Editors P. Roy and D.P. Roy, published by World Scientific, pp. 178-196.
21. R.M. Godbole (1989) “ Signatures and search strategies for heavy quarks” , *Phenomenology of the standard model and beyond* Proceedings of phenomenology workshop, Bombay (India) (Jan. 1989) Eds. P. Roy and D.P. Roy, published by World Scientific, pp. 36-75.
22. R.M. Godbole (1985) “ Nuclear effects and hard scattering processes” , *Proceedings of the Symposium on Nuclear Physics* (Jaipur,India, Dec. 1985), Published by Library and Information Services, BARC, pp. 168-186.
23. R.M. Godbole (1984) “Phenomenology of the top quark and supersymmetric particles”, *Proceedings of the VII High Energy Physics Symposium* (Jammu,India, Oct.1984), Eds. A. Raina and M.V.S. Rao, published by Information services, BARC, pp. 182-218.
24. R.M. Godbole (1984) “ Search for supersymmetric particles”, *Proceedings of the Winter School in Supergravity , Supersymmetry and Nonperturbative QCD* (Mahabaleshwar,India, Jan. 1984), Eds. Probir Roy and V. Singh, published by Springer Verlag, pp. 263-289.

F.2 Invited parallel session contributions to the Symposia, seminars, workshops:

1. R. M. Godbole, A. Kaushik and A. Misra, (2018), “Low-virtuality leptoproduction of open-charm as a probe of the gluon Sivers function,” *Few Body Syst.* **59** (2018) no.3, 34, [arXiv:1802.06980 [hep-ph]].

2. R. M. Godbole, A. Kaushik, A. Misra, V. Rawoot and B. Sonawane, “Heavy Flavour production as probe of Gluon Sivers Function,” *Few Body Syst.* **58** (2017) no.2, 96, [arXiv:1612.01167 [hep-ph]].
3. G. Mendiratta, R. Godbole, A. Shivaji and T. Tait, “A simplified model for dark matter interacting primarily with gluon,” *PoS ICHEP 2016* (2016) 133.
4. A. Arbey, J. Ellis, R. M. Godbole and F. Mahmoudi, “Constraints on the CP-Violating MSSM,” *Nucl. Part. Phys. Proc.* **285-286** (2017) 160, [arXiv:1611.05061 [hep-ph]].
5. R. M. Godbole, A. Kaushik, A. Misra and V. S. Rawoot, “Single Spin Asymmetry in Charmonium Production,” *Few Body Syst.* **56** (2015) no.6-9, 461, Talk presented by A. Misra. [arXiv:1411.3893 [hep-ph]].
6. R. M. Godbole, A. Kaushik, A. Misra and V. S. Rawoot, “Single Spin Asymmetry in Electroproduction of J/ψ and QCD-evolved TMD’s,” *Int. J. Mod. Phys. Conf. Ser.* **37** (2015) 1560069, [arXiv:1411.0832 [hep-ph]]. Talk presented by A. Misra.
7. R. M. Godbole, A. Misra, A. Mukherjee and V. S. Rawoot, (2013) “Transverse Single Spin Asymmetries and Charmonium Production,” *Nuclear Physics B Proceedings Supplement*, arXiv:1310.0752 [hep-ph], talk presented by A. Misra.
8. R. M. Godbole, K. Mohan and G. Pancheri, “Hadronic backgrounds due to two photon processes at CLIC,” *Frascati Phys. Ser.* **54** (2012) 70.
9. G. Pancheri, R. M. Godbole, A. Grau, O. Shekhovtsova and Y. N. Srivastava, “Probing confinement and asymptotia in hadronic cross-sections at LHC,” *Frascati Phys. Ser.* **54** (2012) 120.
10. M. Muhlleitner, R. M. Godbole, C. Hangst, S. D. Rindani and P. Sharma, “Analysis of Higgs spin and CP properties in a model-independent way in $e^+ e^- \rightarrow t \text{ anti-}t$ Phi,” *Frascati Phys. Ser.* **54** (2012) 188.
R. M. Godbole, A. Misra, A. Mukherjee and V. S. Rawoot, “Gluon Sivers Function and Single Spin Asymmetry in $e + p^\uparrow \rightarrow e + J/\psi + X$,” *PoS QNP 2012* (2012) 040 [arXiv:1210.1046 [hep-ph]].
11. R. Godbole, A. Misra, A. Mukherjee and V. Rawoot, “Single Spin Asymmetry in $e + p^\uparrow \rightarrow e + J/\psi + X$,” arXiv:1206.5391 [hep-ph], Conference: C12-03-26.1, p.979-982, DOI: 10.3204/DESY-PROC-2012-02/49.
12. G. Pancheri, R. M. Godbole, A. Grau and Y. N. Srivastava (2011), “A model for probing large distance behaviour in high energy collisions,” *Nucl. Phys. Proc. Suppl.* **219-220**, 239, Conference: C11-06-27.4.

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14. A. Grau, R. M. Godbole, G. Pancheri *et al.*,(2010) “QCD mini-jets contribution to the total cross-section for pions and protons and expectations at LHC,” pp 44-50, In the Proceedings of “Forward Physics At LHC, 27-29 May 2010, La Biodola, Isola d’Elba, Italy”, SPIRES Conference C10-05-27.
15. **“Soft gluon resummation in the infrared region and the Froissart bound”**
G. Pancheri, A. Grau, R. M. Godbole and Y. N. Srivastava (2010), arXiv:1007.0208 [hep-ph], *To appear in the Proceedings of XVIII International Workshop on Deep-Inelastic Scattering and Related Subjects, DIS 2010, April 19-23, 2010 Firenze, Italy.*
16. R. M. Godbole, A. Grau, G. Pancheri and Y. N. Srivastava (2010), “Total Cross-sections at very high energies: from protons to photons,” arXiv:1001.4749 [hep-ph], *In the proceedings of Tenth Workshop on Non-Perturbative Quantum Chromodynamics at l’Institut Astrophysique de Paris, June 8-12, 2009.*
17. R. M. Godbole, S. D. Rindani, K. Rao and R. K. Singh (2010), AIP Conf. Proc. **1200**, 682, [arXiv:0911.3622 [hep-ph]], “Top polarization as a probe of new physics” *To appear in the proceedings of 17th International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY 09), Boston, Massachusetts, 5-10 Jun 2009*
18. A. Achilli, R. M. Godbole, A. Grau, G. Pancheri and Y. N. Srivastava (2009), “Photoproduction total cross-sections at very high energies and the Froissart bound,” In the proceedings of *38th International Symposium on Multiparticle Dynamics ISMD08, Hamburg, Germany, 15-20 Sep 2008.* pp. 422-426,arXiv:0901.0109 [hep-ph].
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20. A. Achilli, Y. N. Srivastava, R. Godbole, A. Grau and G. Pancheri (2009), “Relevance of ultra-soft gluons and kt resummation for total cross-sections,” *Acta Phys.Polon.Supp.* **3** (2010) 185-192 , arXiv:0910.1867 [hep-ph], Presented at LOW ENERGY CONSTRAINTS ON EXTENSIONS OF THE STANDARD MODEL, Kazimierz, Poland, 23-27 Jul 2009.
21. A. Achilli, R. Godbole, A. Grau, G. Pancheri and Y. N. Srivastava (2009), “QCD Mini-jet contribution to the total cross section,” arXiv:0907.0949 [hep-ph], *in the Proceedings of MPI08.*

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23. R. M. Godbole, A. Grau, G. Pancheri and Y. N. Srivastava (2008) “Minijets, soft gluon resummation and photon cross-sections,” To appear in the *Proceedings of the Photon 2007, International Conference on the Structure and Interactions of the Photon and the 17th International Workshop on Photon-Photon Collisions and International Workshop on High Energy Photon Linear Colliders, Paris, France, 9-13 Jul 2007*. Nucl. Phys. Proc. Suppl. **184**, 85 [arXiv:0802.3367 [hep-ph]].
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27. R. M. Godbole and D. Choudhury (2008) “Nonstandard, strongly interacting spin one $t\bar{t}$ resonances,” arXiv:0810.3635 [hep-ph], The proceedings of 34th International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul - 5 Aug 2008.
28. R.M. Godbole, S. Kraml, S.D. Rindani and R.K. Singh (2007) “Fermion polarization at a $\gamma\gamma$ collider as a probe of the CP properties of the Higgs boson”, *Pramana* **69** (2007) 771, *Proceedings of LCWS'06, Bangalore, India, March 2006*.
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33. G. Pancheri, R. M. Godbole, A. Grau and Y. N. Srivastava, (2007) "Total cross-section at LHC from minijets and soft gluon resummation in the infrared region," arXiv:hep-ph/0703174, To appear in the Proceedings of the *Final EURIDICE Meeting: Effective Theories of Colors and Flavors from EURODAPHNE to EURIDICE, Kazimierz, Poland, 24-27 Aug 2006*.
34. R.M. Godbole, S. D. Rindani and R.K. Singh (2007) "Lepton distribution from top-quark : A probe of new physics and top-polarization", *Pramana* **69** (2007) 915, *Proceedings of LCWS'06, Bangalore, India, March 2006*.
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