

## Publications (Journal Articles)

1. **Nuclear modification factor of average D mesons in an anisotropic quark–gluon plasma at the LHC energies**  
W. Shaikh, M. Mandal, P. Roy, and S. Chattopadhyay  
*European Physical Journal Plus* **138** (2023) 598.
2. **Effect of external magnetic fields on nucleon mass in a hot and dense medium: Inverse magnetic catalysis in the Walecka model**  
A. Mukherjee, S. Ghosh, M. Mandal, S. Sarkar, and P. Roy  
*Physical Review D* **98** (2018) 056024.
3.  **$\rho^0$ – $\omega$  mixing in the presence of a weak magnetic field**  
M. Mandal, A. Mukherjee, S. Ghosh, P. Roy, and S. Sarkar  
*European Physical Journal A* **54** (2018) 99.
4. **Mass modification of hot pions in a magnetized dense medium**  
A. Mukherjee, S. Ghosh, M. Mandal, P. Roy, and S. Sarkar  
*Physical Review D* **96** (2017) 016024.
5. **Thermal effects on  $\rho$  meson properties in an external magnetic field**  
S. Ghosh, A. Mukherjee, M. Mandal, S. Sarkar, and P. Roy  
*Physical Review D* **96** (2017) 116020.
6. **Spectral properties of  $\rho$  meson in a magnetic field**  
S. Ghosh, A. Mukherjee, M. Mandal, S. Sarkar, and P. Roy  
*Physical Review D* **94** (2016) 094043.
7. **Jet-dilepton conversion from an anisotropic quark-gluon plasma**  
A. Mukherjee, M. Mandal, and P. Roy  
*European Physical Journal A* **53** (2017) 81.
8. **Pionic dispersion relations in the presence of a weak magnetic field**  
S. P. Adhya, M. Mandal, S. Biswas, and P. Roy  
*Physical Review D* **93** (2016) 074033.
9. **Systematic study of charmonium production in p-p collisions at LHC energies**  
B. Paul, M. Mandal, P. Roy, and S. Chattopadhyay  
*Journal of Physics G* **42** (2015) 065101.
10. **Jet-induced collective modes in an anisotropic quark-gluon plasma**  
M. Mandal and P. Roy  
*Physical Review D* **89** (2014) 074016.
11. **Wake potential in collisional anisotropic quark-gluon plasma**  
M. Mandal and P. Roy  
*Physical Review D* **88** (2013) 074013.
12. **Two-photon correlation in anisotropic quark-gluon plasma**  
P. Mohanty, M. Mandal, and P. Roy  
*Physical Review C* **89** (2014) 054915.
13. **Some aspects of anisotropic quark-gluon plasma**  
M. Mandal and P. Roy  
*Advances in High Energy Physics* **2013** (2013) 371908.

14. **Wake in anisotropic quark-gluon plasma**  
M. Mandal and P. Roy  
*Physical Review D* **86** (2012) 114002.
15. **Effect of running coupling on photon emission from quark-gluon plasma**  
M. Mandal, P. Roy, S. Mitra, and S. Sarkar  
*Physical Review C* **85** (2012) 067901.
16. **Gluon dissociation of  $J/\psi$  in anisotropic quark-gluon plasma**  
M. Mandal and P. Roy  
*Physical Review C* **86** (2012) 024915.
17. **Nuclear modification factor in an anisotropic quark-gluon plasma**  
M. Mandal, L. Bhattacharya, and P. Roy  
*Physical Review C* **84** (2011) 044910.

## Conference Proceedings

1. **Nuclear modification factor of average D meson in an anisotropic quark-gluon plasma at the LHC energies**  
W. Shaikh, M. Mandal, P. Roy, and S. Chattopadhyay  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **64** (2019) 820–821.
2. **Spectral function of  $\rho$  meson at finite temperature in arbitrary external magnetic field**  
S. Ghosh, A. Mukherjee, M. Mandal, S. Sarkar, and P. Roy  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **62** (2017) 762–763.
3. **Collective modes of an anisotropic quark-gluon plasma induced by relativistic jets**  
M. Mandal and P. Roy  
*Proceedings of Science (PoS) ICPAQGP2015* (2017) 027.
4.  **$\rho$  meson spectral function in weak magnetic field**  
S. Ghosh, A. Mukherjee, M. Mandal, S. Sarkar, and P. Roy  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **61** (2016) 666–667.
5. **Charmonium production in pp collisions at energies available at the CERN Large Hadron Collider**  
B. Paul, M. Mandal, P. Roy, and S. Chattopadhyay  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **59** (2014) 690–691.
6. **Two-photon correlation in anisotropic quark-gluon plasma**  
P. Mohanty, M. Mandal, and P. Roy  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **58** (2013) 788–789.
7. **Wake in anisotropic quark-gluon plasma**  
M. Mandal and P. Roy  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **57** (2012) 810–811.
8. **Energy loss due to field fluctuations in a two-stream QCD plasma**  
M. Mandal, S. Sarkar, P. Roy, and A. K. Dutt-Mazumder  
arXiv:1109.1181 [hep-ph] (2011).
9.  **$J/\psi$  suppression in an anisotropic quark-gluon plasma**  
M. Mandal and P. Roy  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **56** (2011) 966–967.
10. **Nuclear modification factor of light hadrons in an anisotropic quark-gluon plasma**  
M. Mandal, L. Bhattacharya, and P. Roy  
*Proceedings of the DAE-BRNS Symposium on Nuclear Physics* **56** (2011) 1026–1027.