

List of Publications

1. Mukherjee, A and Das, M. K. Neutrino phenomenology and scalar Dark Matter with A_4 flavor symmetry in Inverse and type II seesaw. *Nuclear Physics B*, 913:643-663, 2016.
2. Mukherjee, A, Borah, D. and Das, M. K. Common Origin of Non-zero θ_{13} and Dark Matter in an S_4 Flavour Symmetric Model with Inverse Seesaw. *Physical Review D*, 96(1):015014, 2017.
3. Borah, D., Das, M. K., and Mukherjee, A. Common Origin of Non-zero θ_{13} and Baryon Asymmetry of the Universe in a TeV scale Seesaw Model with A_4 Flavour Symmetry. *Physical Review D*, 97(11):115009, 2018.
4. Mukherjee, A. and Das, M. K. Neutrino Phenomenology Within Inverse and Type II Seesaw Based on S_4 Flavor Symmetry. In XXII DAE-BRNS High Energy Physics Symposium 2016, volume 203, pages 73-77, Delhi, India, 12-16 December 2016. Springer, Cham, Switzerland.
5. Nath, N. M., Mukharjee, A., Das, M. K., and Sarma, J. K. $xF_3(x, Q^2)$ Structure Function and Gross-Llewellyn Smith Sum Rule with Nuclear Effect and Higher Twist Correction. *Communication in Theoretical Physics*, 66:663-670, 2016.
6. Mukherjee, A, Das, M. K., and Sarma, J. K. Normal hierarchy neutrino mass model revisited with leptogenesis. **arXiv:1803.08239** (Under communication with *Nuclear Physics B*)
7. Das, P., Mukherjee, A., and Das, M. K. Active and sterile neutrino phenomenology with A_4 based minimal extended seesaw, **arXiv:1805.09231** (Under communication with *Physical Review D*)

Papers Presented in Conference/ Workshop:

1 A. Mukherjee and M. K. Das, X^{th} **BIENNIAL CONFERENCE OF PHYSICS ACADEMY OF NORTH EAST(PANE)**, St. Anthony's College, Shillong, Meghalaya. 10-12 Nov. 2016.

2. A. Mukherjee and M. K. Das, **XXII DAE-BRNS High Energy Physics Symposium 2016**, Dept. of Physics and Astrophysics, University of Delhi, 12-16 Dec. 2016.

3. A. Mukherjee, D. Borah, and M. K. Das, **National Symposium on Particles, Detectors and Instrumentation**, Tata Institute of Fundamental Research, 4-7 October, 2017.

4 A. Mukherjee and M. K. Das, **NAHEP - National Seminar in Nuclear and High Energy Physics**, Dept. of Physics, Gauhati University, Guwahati, 30-31 march, 2018.