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Area of Interest: Hadron structure, QGP, CP-violations,
Cosmology, Neutrino Physics.

List Of Referred Research Publications:

1. A Study on Binding energies of Λ Hypernuclei, Eur. Phys. J. Plus, Vol. 132: 262 (2017) 1-6, S. Pal, R. Ghosh, B. Chakrabarti and A. Bhattacharya.
2. Quark Binding Potential and QGP, Acta Physica Polonica B, Vol. 49 No. 11 (2018), 1865-1874, Shukla Pal, Aparajita Bhattacharya, B. Chakrabarti and Rishmita Ghosh.
3. Baryon Masses in Diquark-Quark Model using Momentum Dependent Potential, AIP Conference Proceedings, Vol. 2072 (2019), 020016, S. Pal.
4. Variable Lande Splitting Factor and Composite Fermion, Mod. Phys. Lett. A, Vol. 34 No. 36 (2019), 1950302(1-11), S. Pal, A. Bhattacharya, R. Ghosh and B. Chakrabarti.
5. Properties of Hadrons in Medium in the context of Fermi Liquid Model and Diquarks, AIP Conference Proceedings, Vol. 2249 (2020), 030026, A. Bhattacharya, S. Pal and B. Chakrabarti.
6. A Study on the ground and Excited States of Hypernuclei, Physica Scripta, Vol. 95 (2020) 045301(1-8), S. Pal, R. Ghosh, B. Chakrabarti and A. Bhattacharya.
7. A theoretical investigation on Tetra-quark States in the Context of Composite Fermion Model of Diquark, J. Phys: Conf. Ser, 1529 (2020) 012006, Shukla Pal, Rishmita Ghosh Aparajita Bhattacharya and B. Chakrabarti.
8. Fractional Charge of Quarks and Fractal Properties of Hadrons, J. Part. Phys., Vol 5 No. 1 (2021) 1-3, A. Bhattacharya, S. Pal, D. S. Bhattacharya and P. Dhara.
9. Mass of the Charm Tetra-quark ($c\bar{c}c\bar{c}$) in Diquark-Antidiquark and Di-Hadronic States Approach, Eur. Phys. J. Plus, Vol. 136: 625 (2021) 1-5, S. Pal, R. Ghosh, B. Chakrabarti and A. Bhattacharya.
10. Baryon Masses in Medium with Momentum Dependent Potential, Gribove-90 Memorial, (2021) 217-228, A. Bhattacharya, S. Pal, R. Ghosh, B. Chakrabarti and P. Dhara.