**A Note on Modified Ohm’s Law for Magnetized Gaseous Quantum Plasma Incorporating Thermal Radiation.**

P. Jeriya1, R. K. Pensia2, A. Hussain1, M. Pensia3.

*1 Department of Physics, Pacific Academy of Higher Education & Research University, Udaipur, 313024 (Raj.) India*

*2 Department of Physics, S.R.J. Govt. Girls P.G. College Neemuch, 458441 (M.P.) India*

*3 Department of Physics, Banasthali Vidya Peeth, Tonk, 304022 (Raj.) India*

Corresponding Author [email:- pankajjeriya@gmail.com](mailto:email:-%20pankajjeriya@gmail.com)

***Abstract:***  *In, this paper presenting the analysis of magnetohydrodynamics oscillations in the optically thick self-gravitational molecular cloud under the influence of black body radiation. The G.M.H.D set of equations are used to represents the mathematical model of our considered problem. The general dispersion relation is derived using normal mode analysis which is further reduced in different mode of propagation as our interest. The current results are useful in understanding how to affects rotating quantum plasma instability in the presence of limited electrical resistance.*