**EFFECT OF POROSITY AND PERMEATIVITY ON HYDROMAGNETIC KELVIN – HELMHOLTZ INSTABILITY BY THE PRESENCE OF FINITE LARMOR RADIUS**

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 **Abstract-** The Kelvin – Helmholtz instability under the suppression of finite ion Larmor radius is linearly analyzed by the influence of porosity and permittivity. The effect of magnetic field is taken uniform and transverse to the direction of streaming. With the normal mode analysis method and the appropriate linearized perturbation equation, a uniform dispersion relation is derived. To show different parameters affect the system growth rate a numerical calculation has been carried out. It is found that the effect of porosity and permittivity modifies the dispersion relation of the K- H instability. It is concluded that the finite Larmor radius in the presence of porosity and permittivity stabilize the system. Porosity and FLR correction have an impact on the formation of stars and dens molecular clouds.