

Abstract Submitted  
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**Effect of viscosity on propagation of MHD waves in astrophysical plasma.** ALEMAYEHU CHERKOS, Addis Ababa University, SOLOMON COLLABORATION — We determine the general dispersion relation for the propagation of magnetohydrodynamic (MHD) waves in an astrophysical plasma by considering the effect of viscosity with an anisotropic pressure tensor. Basic MHD equations have been derived and linearized by the method of perturbation to develop the general form of the dispersion relation equation. Our result indicates that an astrophysical plasma with an anisotropic pressure tensor is stable in the presence of viscosity and a strong magnetic field at considerable wavelength.

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