

## ABSTRACT

Earth's magnetosphere is formed due to constant solarwind interaction with the planet's magnetic field. Perturbations in the particle or field distribution in various plasma regions of Earth's magnetosphere gives rise to different waves and instabilities in both macro and micro scale lengths. They in turn alter the dynamics of the magnetosphere. Electromagnetic Ion Cyclotron (EMIC) wave is one such plasma wave which plays a key role in the dynamics of Earth's magnetosphere. A brief overview on EMIC wave generation in the Earth's magnetosphere will be discussed in the present talk.