



## Martian Plasma Waves

Scientists from the **Indian Institute of Geomagnetism** studied **high-frequency plasma waves** in Mars' upper atmosphere using data from [NASA's MAVEN spacecraft](#).

- The study found two types of waves in Mars' magnetic environment—**some below and some above the electron plasma frequency**. These waves are important because they help us understand how electrons behave around Mars.
- NASA's MAVEN (**Mars Atmosphere and Volatile Evolution**) was launched in November 2013 with the mission to gain insights of the **planet's atmospheric conditions**.
- Plasma waves are **oscillations or disturbances in the electric and magnetic fields** that propagate through plasma, which is a state of matter consisting of charged particles like ions and electrons.
  - These waves play a significant role in various plasma phenomena, influencing **energy transfer, particle acceleration, and the behavior of charged particles within plasmas found in space**.

**Read more:** [NASA's MAVEN spacecraft](#)

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