

Waves and Quasi-Periodic-Pulsations in Weak Active Solar Emissions



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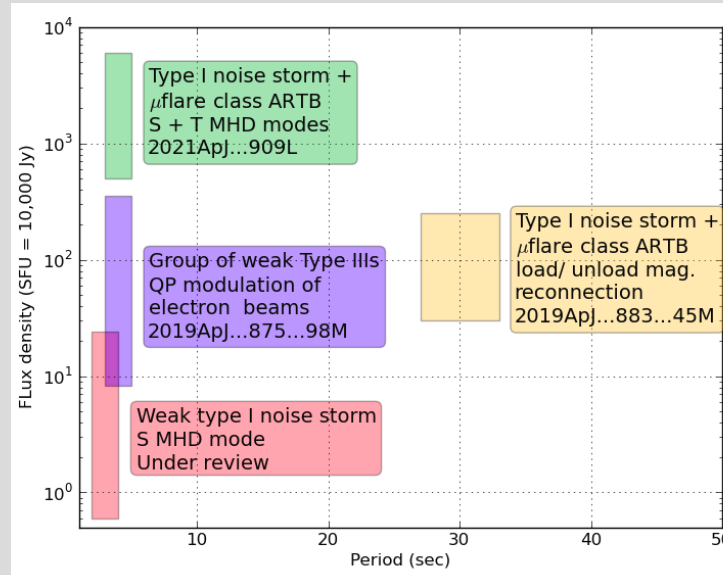
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Motivation

- Quasi Periodic Pulsations (QPPs) - common feature of flaring energy release; Observed primarily at X-rays, EUV and high radio freq.
- Spatially resolved observations – numerous at higher frequencies, rare at radio wavelengths
- New generation instruments like the Murchison Widefield Array (MWA) now make it possible
- Present a few examples illustrating the new insights obtained about the nature of coronal magnetic features at large coronal heights

Radio QPPs



Phase space covered by observations in the period-flux density plane
S/ T – Sausage/ Torsional MHD modes

Conclusion

- Spectroscopic snapshot imaging capability - new tool for probing QPPs in the radio regime.
- Widespread presence across wide range of flux densities
- Energetically weak - “test particles”, probe of the features of the system without altering its properties
- Robust detection of sausage and torsional MHD modes + much more