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Poster
Low-frequency solar radio observations provide a powerful ground-based tool for monitoring eruptive activity in the solar corona. The Owens Valley Radio Observatory Long Wavelength Array (OVRO-LWA) enables high-cadence solar dynamic spectra and imaging over frequencies sensitive to shocks, electron beams, and coronal mass ejections.

We present the real-time capability of OVRO-LWA as a radio facility for space weather applications. This includes near-real-time spectrum and imaging products that can identify type II and type III bursts, track shock propagation, and provide rapid context for flare- and CME-related activity. These radio diagnostics can complement existing monitoring systems by improving the detection and characterization of eruptive solar events. OVRO-LWA demonstrates the potential of ground-based radio imaging spectroscopy as an important component of future space weather monitoring and forecasting.



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