

**NRAO/Socorro Colloquium Series**

**Sarah Burke-Spolaor**

*NRAO*

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***Millisecond radio transients: a hot topic***

**Abstract:**

Exploring the sky at millisecond durations has presented a fascinating and, at times, confusing journey. Fast Radio Bursts (FRBs) are millisecond-duration radio signals whose swept-frequency signals indicate a non-local origin. FRB science has been building rapidly since the first discovery of an FRB in 2007, as the origin of these bursts remains a mystery and presents an open challenge for theorists and observers alike. We are now able to detect FRB events in real-time, and are searching for FRBs with radio interferometers. This has opened up the possibility to understand their origins through arcsecond localization, and the identification of multi-wavelength counterparts. I will describe what we currently know about FRBs, and the status of the hunt for their enigmatic origins.

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**April 24, 2015**

**11:00 am**

**Array Operations Center Auditorium**

**All NRAO employees are invited to attend via video, available in Charlottesville Auditorium, Green Bank Auditorium, and VLA Video Conference Room.**

Local Host: J. Ott

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