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## Galactic transients discovered in the MeerTRAP real-time, commensal single pulse search with MeerKAT

*Tuesday, 4 July 2023 10:00 (20 minutes)*

MeerTRAP is a European Research Council funded search for fast radio transients with MeerKAT. The project uses a custom backend at the telescope that operates commensally with the MeerKAT Large Survey Projects (LSPs), collecting voltages from the antennas to form hundreds of beams on sky. These beams are continuously searched for millisecond-duration pulses from fast radio transients such as pulsars, magnetars, Rotating Radio Transients (RRATs) and Fast Radio Bursts (FRBs). In over three years of continuous operating we have amassed thousands of hours on-sky and discovered over 100 new radio transients. In this talk I give an overview of the dozens of transients we have discovered within the Galaxy, the follow-up science we have done on them, and their implications for the broader transient population.

**Apply to be considered for a student ; award (Yes / No)?**

No

**Level for award;(Hons, MSc, PhD, N/A)?**

N/A

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