

Present and future large radio surveys of the extreme universe

lundi 26 septembre 2022 15:30 (30 minutes)

Transient radio emission is a fundamental tracer and physical probe of the most extreme and transient events in the universe. In this talk I will discuss a number of recent developments with existing radio telescopes, including i. the ThunderKAT image-plane transients programme on MeerKAT, ii. The first citizen-science project to search for commensal radio transients, iii. First radio detections of 'VHE GRBs' detected by ground-based Cherenkov arrays, iv. The possible association of a Tidal Disruption Event with an Ice Cube astrophysical neutrino. I will conclude by discussing the prospects for the next-generation of radio telescope arrays, and why we should consider a dedicated transient monitoring array for the southern hemisphere.

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Classification de Session: Transients