
Pulsar Radio Phenomenology and Fundamental Physics

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Résumé

In this poster, I introduce how pulsar radio phenomenology touches upon many areas of modern fundamental physics. I then summarise some of the key observables that characterise the pulsar radio emission and present examples from recent work we are involved in on integrated pulse profiles, pulsar polarimetry and geometry modelling, pulsar radio spectra, and pulsar single-pulse emission. I finish by describing how the SKAO will advance those research areas, offer my suggestions for SKA-Low Science Verification, and stress that pulsar radio phenomenology is crucial for understanding other radio transients, such as fast radio bursts (FRBs) and long-period transients (LPTs).

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