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Technologies for Radio Astronomy

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Technologies for radio astronomy is a key component of the CSIRO Astronomy and Space Science (CASS) unit, along with operating Parkes, ATCA, ASKAP and the LBA as a National Facility. CASS capabilities extend along the whole spectrum of the skills required to design, build, install, commission and operate state-of-the-art radio telescope systems. CASS specialises currently in Multi-beam, Ultra-Wide-Band (UWB) and Phased Array Feed (PAF) systems.

An overview of recent and future systems and their engineering challenges will be provided, together with the implications for large telescopes (e.g. SRT) and the SKA.

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