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The Big Data Challenge of Radio Astronomy

Wednesday 2 April 2025 09:00 (30 minutes)

Radio astronomers are engaged in an ambitious new project to detect faster, fainter, and more distant astrophysical phenomena using thousands of individual radio receivers linked through interferometry. The expected deluge of data (up to 300 PB per year) poses a significant computational challenge that requires rethinking and redesigning the state-of-the-art data analysis pipelines.

Desired slot length

Speaker release

Yes

Author: Dr TOLLEY, Emma Elizabeth

Presenter: Dr TOLLEY, Emma Elizabeth

Session Classification: Science talk

Track Classification: Miscellaneous