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The Square Km Array Observatory: A New step in Extremely Large Terrestrial Telescopes, Science and Instrumentation Challenges and breakthroughs

Friday, 1 September 2023 09:00 (1h 50m)

The SKAO is a next-generation radio astronomy-driven Big Data facility that will revolutionise our understanding of the Universe and the laws of fundamental physics. Enabled by cutting-edge technology, it promises to have a major impact on society, in science and beyond.

The SKA Observatory, or SKAO for short, is an intergovernmental organisation bringing together nations from around the world.

Its mission is to build and operate cutting-edge radio telescopes to transform our understanding of the Universe, and deliver benefits to society through global collaboration and innovation.

The observatory has a global footprint and consists of the SKAO Global Headquarters in the UK, the SKAO's two telescopes at radio-quiet sites in South Africa and Australia, and associated facilities to support the operations of the telescopes.

Lecturer: Dr Wendy Williams is a Scientist at the SKA Observatory Headquarters, at the Jodrell Bank site in Cheshire (UK), and part of the SKAO Science Team since July 2022. She holds a Postdoctoral Research Fellowship at Leiden Observatory (2018-2022) and a Postdoctoral Research Assistant at the University of Hertfordshire (UK) (2015-2018) and graduated at Leiden University and Observatory (2015) after undergraduate and Master studies at University of Cape Town (MSc Astronomy distinction) (Text informed by the Lecturer).

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Session Classification: Intelligence on Instruments: The Astrophysics/Astronomy Case