

What telescopes do you use in South Africa?

We heavily involve in South Africa's MeerKAT, Square Kilometre Array (SKA), Hydrogen Epoch of Reionization Array (HERA) telescopes, LSST (Vera C. Rubin Observatory), FAST telescope and CMB Stage-4, and also use data from Atacama Cosmology Telescope, South Pole Telescope, ESO's Kilo-Degree Survey (KiDS), and Dark Energy Survey Instrument (DESI).

What is the South African radio astronomy observatory?

In the heart of this landscape, near the small Northern Cape town of Carnarvon, the South African Radio Astronomy Observatory operates a technological marvel that has transformed our understanding of the cosmos. The MeerKAT radio telescope has unlocked cosmic mysteries. It's fostered scientific collaboration. It is also nurturing local talent.

Is Africa a leader in radio astronomy?

And, thanks to initiatives like the African Very Long Baseline Interferometry Network, MeerKAT is building capacity in radio astronomy across the continent and positioning Africa as a leader in the field.

Does cosmic web contribute to FRB's dispersion measure?

Cosmic web's contribution to FRB's dispersion measure (DM) In Walker et al. (2024), we utilized the cosmological simulation "IllustrisTNG" to investigate the dispersion measures (DMs) of fast radio bursts (FRBs) accumulated as they traverse various types of large-scale structure (LSS).

By making observations at low radio frequencies, researchers are able to directly study hydrogen in the gas clouds that provided the raw material for the formation of the first luminous cosmic structures during the ...

Astrophysics never ceases to surprise us, and the recent discovery of a peculiar and record-breaking energy burst from a binary star system has sparked new questions about the universe's hidden mechanisms. This phenomenon, designated GLEAM-X J0704-37, challenges conventional wisdom about stellar systems and energy production. By delving into ...

4 ???· Umgwalo, Geometry, Cultural Preservation, and Cosmic Language in Dr Esther Mahlangu's Seven-Decade Legacy at Wits Art Museum Exhibition installation showing timeline at the back and in front a model of her home from the 1980s. Courtesy of WAM and The Melrose Gallery. Photographer: Tatenda Chidora On a Tuesday evening, the Wits Art Museum became ...

South Africa has started construction of a radio telescope called the Karoo Array Telescope (KAT). The prototype 15-m diameter dish for this array was completed in late 2007 at the Hartebeesthoek Radio Astronomy Observatory. The KAT ...



South Africa cosmic systems

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Over the past five years, MeerKAT has made remarkable contributions to both South African and international science. It possesses a unique combination of exceptional sensitivity and good resolution, enabling ...

In South Africa, cosmic rays have been observed since the late 1950"s. At present four cos-mic ray detectors, called neutron monitors, are been operated, with one in Antarctica and one in ...

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The MeerKAT radio telescope has unlocked cosmic mysteries. It's fostered scientific collaboration. It is also nurturing local talent. MeerKAT, which is among South Africa's largest scientific infrastructure projects of the ...

The "cosmic light rays" warning appeared on social media in several African countries - including Nigeria, Liberia, Rwanda, Sudan and South Sudan - in early April, with a peak just before, during and after the day of the North American eclipse. It's long and repetitive, but these are the basics:. Tonight between 12:30 a.m. and 3:30 a.m. ... turn off your cell ...

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South Africa cosmic systems

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