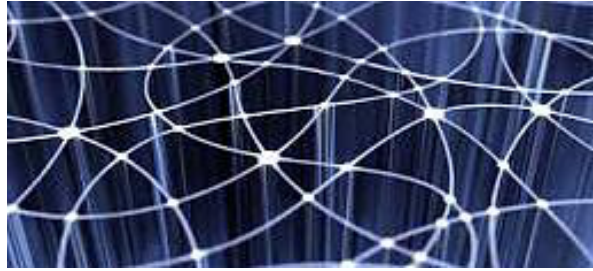


# High-performance Signal and Data Processing: Challenges in Astro- and Particle Physics and Radio Astronomy Instrumentation



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## The Wits Astro Data Center: a hands-on, interactive data center for multi-frequency astronomy

Wits Astro Data Center for multi-frequency astronomy.

### Summary

The Wits Astro Data Center (WADC) has been recently created to respond to the challenges posed by the development of the Southern Africa platform for multi-frequency astronomy, including MeerKAT, SKA, HESS, CTA, SALT and their links to the multi-frequency archival data sparse all over the world.

The WADC also is a key response to the research strategy set up by the Wits astrophysics group that is involved in the exploitation of the data coming from these experiments as well as from several other ground-based and space-borne experiments in astrophysics, astro-particle physics and cosmology.

We provide a hands-on tour to the potential, the technical characteristics and the applications of the interactive data analysis viable at the WADC.

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