Contribution ID: **58**   Type: **not specified**

The Ilifu Cloud Computing Facility: Enabling MeerKAT Science

Friday, 8 October 2021 10:30 (20 minutes)

The Ilifu cloud computing facility is a data intensive research facility developed by the Inter-University Institute for Data Intensive Astronomy (IDIA) and whose main aim is to facilitate the reduction and the scientific exploitation of MeerKAT data. Ilifu not only supports the data reduction of most MeerKAT Large Survey Projects and Open Time Projects but also provides a platform to collaboratively develop a variety of scientific analysis and visualization tools into a fully-fledged environment for the effective exploitation of radio surveys in a multi-wavelength context. In my talk I will introduce the rationale for Ilifu, its design and development to date. I will then detail the projects it supports and the services it provides and outline a vision for a federated South African Data Intensive Research Cloud that empowers researchers to work with and collaborate on big data science projects.

Reasearch area

Other

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Session Classification: SKA Data Center - related activities