

MeerKAT open time call 3 December - Proposal summary

MeerKAT Imaging of the Akari Deep Field South - Multi-Wavelength Time-Domain Science with MeerKAT/MeerLICHT on the way to SKA/LSST	
Proposal number 29	Thu Jan 31 2019 13:34:05 GMT+0200 (SAST)
Email address	mattia.vaccari@gmail.com
Principal Investigator	Mattia Vaccari (UWC/IDIA)
Lead technical contact	Nadeem Oozeer (SARAO)
Authors	Russ Taylor (UCT/UWC/IDIA) - MeerKAT Data Reduction Lead, Nadeem Oozeer (SARAO, SA) - SARAO Technical Contact Point, Michelle Lochner (AIMS/SARAO, SA), Patrick Woudt (UCT, SA), Fang Xia An (UWC/IDIA, SA), Marcin Glowacki (UWC/IDIA, SA), Lucia Marchetti (UCT/UWC, SA), Haojing Yan (University of Missouri-Columbia, US), Yicheng Guo (University of Missouri-Columbia, US), Zhiyuan Ma (University of Massachusetts Amherst, US), Min S. Yun (University of Massachusetts Amherst, US), Hansung Gim (Arizona State University, US), Valentino Gonzalez (University of Chile, Chile), Eduardo Ibar (University of Valparaiso, Chile), Jiasheng Huang (CASSACA/NAOC, China), Cheng Cheng (CASSACA/NAOC, China), Ivano Baronchelli (Padua, Italy), Maurizio Paolillo (Naples, Italy), Emmanuel Ocran* (PhD, UCT/UWC/IDIA, Ghana), Zubair Patel* (PhD, UCT/IDIA, South Africa), Wathela Alhassan* (MSc, UCT/IDIA, Sudan), Sibusiso Mdhuli* (MSc, UWC/SARAO/IDIA, South Africa), Chaka Mofokeng*, (MSc, UWC/NASSP/IDIA, South Africa), Jeremy Smith* (MSc, UCT/IDIA, South Africa)

Abstract:

We propose a multi-epoch single-pointing MeerKAT Imaging Survey of the Akari Deep Field South (ADFS). We will carry out four 4-hr observations (including overheads) for a total 16-hr MeerKAT Observing Time with a nominal (but flexible) 1 month cadence. Single-epoch sensitivity will be $4\text{--}5\ \mu\text{Jy}/\text{beam}$ rms and stacked sensitivity will be $2\text{--}3\ \mu\text{Jy}/\text{beam}$ rms. This will be accompanied by MeerLICHT observations, which together with the excellent multi-wavelength data available from the ultraviolet to the millimeter will be used to clarify the nature of stable and transient sources in the field and prepare for LSST/SKA.

Observation parameters:

Targets	ADFS - (RA, DEC)=(4:46:19, -53:27:30) (J2000.0)		
Total time	16 in 4 epochs	Dump rate	4 s
Daytime	Nighttime preferred	Variable/Transient	Variable or Transient
Baselines	4 long exposures of an extragalactic field at (roughly) 1 month cadence		

List of files uploaded. Files in order of upload. Usually just revising their proposal, so click the last one, but some people attached several different files, so they may all be useful.

https://drive.google.com/open?id=15Waj9HiPvSFeCbKx74HyOZgkP1_eOhAY,

https://drive.google.com/open?id=1J_LfZbmp9IOU4ANq12QBeHqz8NOZDH8C .

File comments:

I have been trying to submit an updated version of the proposal but I did not seem to be able to delete the previous version. Please refer to ADFS_MeerKAT_Imaging_Updated.pdf as our final submission.