

**uGMRT–MIGHTEE: Joint exploration of the deep radio sky
with MeerKAT and the uGMRT, the pathway to the SKA**

PROGRAMME SCHEDULE

Monday, 2 April 2018

Project updates

0930 – 0945	Welcome remarks	Yashwant Gupta
0945 – 1015	GMRT upgrade: Current status	Dharam Lal
1015 – 1045	MeerKAT and MIGHTEE	Russ Taylor
1050 – 1130	Tea break	
1130 – 1200	GMRT archive processing project	Yogesh Wadadekar
1200 – 1230	MALS: MeerKAT absorption line survey	Neeraj Gupta
1230 – 1300	uGMRT–MIGHTEE project and synergy with DES	Matt Jarvis
1300 – 1400	Lunch break	
1400 – 1420	Atypical radio galaxies in deep radio fields	Biny Sebastian
1420 – 1440	SAGAN: Search and Analysis of GRGs with Associated Nuclei	Pratik Dabhade
1440 – 1500	Diffuse radio emission in ACTPol clusters	Sinenhlanhla Sikhosana
1500 – 1520	Mergers: A MeerKAT view of diffuse emission in galaxy clusters	Kenda Knowles
1520 – 1540	Discussion	
1540 – 1600	Tea break	
1600 – 1700	NCRA Colloquium	Russ Taylor
1900 – 2030	Dinner	

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Tuesday, 3 April 2018

Radio imaging pipeline development: Problems, RFI, lessons, etc.

0930 – 0950	The IDIA pipeline	Russ Taylor
0950 – 1010	Lessons from imaging pipeline development	Ishwara-Chandra
1010 – 1030	ARTIP: An automated imaging pipeline for MeerKAT and uGMRT spectral line surveys	Neeraj Gupta
1030 – 1050	Transient pipeline for the upgraded GMRT	Sanjay Kudale

1050 – 1130	Tea break	
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1130 – 1150	Real time RFI excision for the uGMRT	Kaushal Buch
1150 – 1210	Predicting the satellite RFI at the GMRT	Santaji Katore
1210 – 1230	RFI identification and flagging in the visibility plane	Srikrishna Sekhar
1230 – 1300	Discussion	

1300 – 1400	Lunch break	
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Radio sky and machine learning: Big data challenges

1400 – 1420	Machine Learning in the era of Big Data Radio Astronomy	Russ Taylor
1420 – 1440	Data fusion and machine learning: Approaches to classification	Mattia Vaccari
1440 – 1500	Machine learning and its application on optical surveys	Sheelu Abraham
1500 – 1520	Machine learning aspects for deep radio images	Gauri Shah (PSL)
1520 – 1540	Machine learning applications for radio astronomy	Vineet Pathak/Harshal Hayatnagarkar (ThoughtWorks)
1540 – 1600	Deep learning for object recognition in images	Sanjay Kadam (C-DAC)

1600 – 1630	Tea break	
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1630 – 1650	GPz: non-stationary sparse Gaussian processes for heteroscedastic uncertainty estimation in astronomical data sets	Matt Jarvis
1650 – 1710	Process and equipment analytics through machine learning	Venkat Runkana (TRDDC)
1710 – 1730	Machine learning aspects for morphological classification	Wathela Alhassan
1730 – 1800	Brainstorming: Synergy between radio astronomy and industry	Yashwant Gupta and Russ Taylor

1930 – 2100	Workshop banquet	
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Wednesday, 4 April 2018

Science interests using sky surveys

0930 – 0950	Upgraded GMRT, its imaging capabilities	Dharam Lal
0950 – 1010	Cluster of galaxies with deep radio imaging	Ruta Kale
1010 – 1030	Tracing the late evolution of galaxy mergers with deep radio imaging	Mousumi Das
1030 – 1050	AGN science interests from deep radio surveys	Veeresh Singh
1050 – 1110	Clustering of radio sources in COSMOS survey	Catherine Hale

1110 – 1130	Tea break	
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1130 – 1145	Alignments of radio galaxy jets	Russ Taylor
1145 – 1200	Results from ELAIS–N1 field	Emmanuel Ocran/Russ Taylor
1200 – 1215	Deep band–3 observations of XMM–LSS field	Ishwara-Chandra
1215 – 1230	On the prospect of discovering galaxy groups through radio waves	Surajit Paul
1230 – 1245	Dynamical evolution of CR in galaxy clusters and possible connection to radio emission	Reju Sam John
1245 – 1300	Polarisation science	Russ Taylor

1300 – 1400	Lunch break	
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Future projects

1400 – 1600	Future projects - I	Russ Taylor and Dharam Lal (Moderators)
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1600 – 1630	Tea break	
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Project planning

1630 – 1800	Future projects - II	Russ Taylor and Dharam Lal (Moderators)
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1900 – 2030	Dinner	
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PROGRAMME SCHEDULE

Thursday, 5 April 2018

uGMRT beam–shapes and high dynamic range imaging

0930 – 0950	Beam–shapes for the upgraded GMRT	Santaji Katore
0950 – 1010	Wide–band beam corrections for the uGMRT	Biny Sebastian
1010 – 1030	Residual fringe subtraction to mitigate direction dependent errors	Srikrishna Sekhar
1030 – 1050	Total intensity wide field imaging	Russ Taylor
1050 – 1130	Tea break	
1130 – 1150	Polarisation efforts using uGMRT	Preeti Kharb/Dharam Lal
1150 – 1210	Wide–band polarisation and A–projection	Preshanth Jagannathan/Russ Taylor
1210 – 1230	Closing remarks	Russ Taylor
1300 – 1400	Lunch break	

Thank you!