



GMRT Observing Application

Cycle No: 16

Proposal Code: 16_051

Submission Date: 15-01-2008

Title: The content of giant cavities in the IGM of galaxy clusters

Related Proposals:

Abstract:

Proposers:

The first name on the list of proposers is the Principal Investigator for this proposal.

Proposer	Institution	Observer	e-mail	Nationality	PhD Student
Somak Raychaudhury	Birmingham	Yes	somak@star.sr.bham.ac.uk	INDIA	No
Ken Cavagnolo	Waterloo	No	kcavagno@scimail.uwaterloo.ca	CANADA	No
Brian Robert McNamara	Waterloo	No	mcnamara@uwaterloo.ca	CANADA	No
Ramana Athreya	NCRA	Yes	rathreya@ncra.tifr.res.in	INDIA	No

Phd Students table:

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Scientific Categories: Active galaxies, Cosmology

Time Requested Summary:

21 cm	50 cm	90 cm	128 cm	200 cm	dual(50/128) cm	Total Time Requested (hrs)
0.0	0.0	0.0	0.0	26.0	26.0	52.0

Authors have been allotted time in GMRT before: Yes

Data Reduction at: home

Support Required: none

Dates Preferred/Not Preferred:

Start Date	Finish Date	Preferred/Not Preferred
2009-04-02	2009-05-14	Preferred
2009-07-15	2009-08-31	Preferred

Special requirements of hardware, software, or operating procedures, etc:

Is integration time less than 8 seconds required for extended periods?: No

Expected disk space requirement for the project: 50.0 GB

Non Standard Frequency: No

Short Critical Spacing: Yes

Any other special requirements:

Night time obs please for 150 and 240 MHz

Source List:

Group Name	Source Name	RA (hh mm ss.sss)	DEC (dd mm ss.sss)	Epoch	GMRT Array	Short Spacing Critical	Waveband	Freq (MHz)	Baseband BW (MHz)	Flux Density - Line (mJy)	Flux Density - Cont (mJy)	Req RMS (mJy/beam)	Time Req (hrs)	LST Start	LST Stop
G1	Abell 2052	15 16 45.50	+07 00 01.00	2000	F	Yes	dual(50/128) cm		8.0				9.0	10	20
	Obs Types:	imaging													
	Other config options:	Correlator - 0 Sideband													
G2	Abell 2052	15 16 45.50	+07 00 01.00	2000	F	Yes	200 cm		8.0				9.0	10	20
	Obs Types:	imaging													
	Other config options:	Correlator - 0 Sideband													
G3	Abell 1835	14 01 02.00	+02 51 32.00	2000	F	Yes	dual(50/128) cm		8.0				9.0	09	18
	Obs Types:	imaging													
	Other config options:	Correlator - 0 Sideband													
G4	Abell 1835	14 01 02.00	+02 51 32.00	2000	F	Yes	200 cm		8.0				9.0	09	18
	Obs Types:	imaging													
	Other config options:	Correlator - 0 Sideband													
G5	Abell 2597	23 25 18.00	-12 06 30.00	2000	F	Yes	dual(50/128) cm		8.0				8.0	19	03
	Obs Types:	imaging													
	Other config options:	Correlator - 0 Sideband													
G6	Abell 2597	23 25 18.00	-12 06 30.00	2000	F	Yes	200 cm		8.0				8.0	19	03

Group Name	Source Name	RA (hh mm ss.sss)	DEC (dd mm ss.sss)	Epoch	GMRT Array	Short Spacing Critical	Waveband	Freq (MHz)	Baseband BW (MHz)	Flux Density - Line (mJy)	Flux Density - Cont (mJy)	Req RMS (mJy/beam)	Time Req (hrs)	LST Start	LST Stop
	Obs Types:	imaging													
	Other config options:	Correlator - 0 Sideband													

Comments related to source list: Night time observation please for both bands (to minimise RFI particularly for 150 and 240 MHz)