

Observing Application

Date: Nov, 15 2012 Proposal ID: VLA/12B-399 Legacy ID: AM1215

PI: Minnie Mao

Type : Director's Discretionary

Time - Exploratory Time Category : Active Galactic Nuclei

Total Time: 3.0

A Giant Radio Galaxy with a Spiral Host

Abstract:

We have recently discovered a 1.5Mpc giant radio galaxy that appears to be hosted by a large spiral galaxy. Giant radio galaxies are rare and radio galaxies that have spiral hosts are even rarer. This is the first instance of a giant radio galaxy being hosted by a spiral. We obtained IFU data only last week confirming the spiral nature of the host galaxy and wish to publish this data as soon as possible. Here we propose low-frequency observations with this source to take advantage of the 4-band system that is currently available.

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Related proposals:

Joint:

Not a Joint Proposal

Observing type(s):

Continuum, Single Pointing(s)

VLA Resources

Name	Conf.	Frontend & Backend	Setup
low-freq	Any	WIDAR OSRO, Full Polarization	Rest frequencies: 1250.0,1750.0 MHz Subband Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz Total Bandwidth: 2,048.00 MHz

Testing Resource Images

Sources:

Name	Position		Velocity		Group
2MASXJ23453268- 0449256	Coordinate System	Equatorial	Convention	Optical	target
	Equinox	J2000			
	Right Ascension	23:45:32.70	Ref. Frame	Barycentric	
		00:00:00.0			
	Declination	-4:49:25.3	Redshift	0.07557	
		00:00:00.0			

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
1	3.00	1	0 day	17:45:00	06:45:00	0

Session Constraints:

Name	Constraints	Comments
1		We are actually proposing for the 4-band and P-band systems, but the proposal tool does not allow for this at the moment.

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
1	2MASXJ23453268- 0449256	low-freq	3.0 hour	0.5 mJy/bm	

Present for observation: yes Staff support: None Plan of Dissertation: no