



Observing Application

Date : Aug, 22 2010
Proposal ID : VLA/10B-240
Legacy ID : AS1063
PI : Lorant Sjouwerman
Type : Rapid Response -
Exploratory Time
Category : Extragalactic
Total Time : 2.0

Water maser near a methanol maser in M31?

Abstract:

We found a methanol maser site in M31. Water masers are significantly better for proper motion measurements, because of the higher frequency, and may be found in association with methanol masers. No water masers were found in M31, but this site was not adequately searched for. There is a reasonable chance to find a water maser here, and we ask for two hours exploratory time in any configuration to find out.

Authors:

Name	Institution	Email	Status
Lorant Sjouwerman	National Radio Astronomy Observatory	lsjouwerman@nrao.edu	
Ylva Pihlstrom	New Mexico, University of	ylva@unm.edu	

Principal Investigator: Lorant Sjouwerman
Contact: Lorant Sjouwerman
Telephone: +1-575-835-7332
Email: lsjouwerman@nrao.edu

Related proposals:

AS992, 10B-235

Joint:

Not a Joint Proposal

Observing type(s):

Spectroscopy, Single Pointing(s)

VLA Resources

Name	Conf.	Frontend & Backend	Setup
e+3b	Any	K Band 1.3 cm 18000 - 26500 MHz WIDAR OSRO2: 1 Subband/Dual polz	Rest frequencies: 22235 MHz Bandwidth: 8.0 MHz No. of Channels: 256 Poln. products: 2.0 Channel Width: 31.25 kHz

Sources:

Name	Position	Velocity	Group
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Name	Position		Velocity		Group
east+3bis	Coordinate System	Equatorial	Convention	Optical	maybe
	Equinox	J2000			
	Right Ascension	00:44:20.0	Ref. Frame	Barycentric	
		00:00:00.0			
	Declination	+41:19:30	Velocity	-240.00	
00:00:00					

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
m31	2.00	1	0 day	20:00:00	05:00:00	0

Session Constraints:

Name	Constraints	Comments
m31	any array	

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
m31	east+3bis	e+3b	2.0 hour	1 mJy/bm	

Present for observation: no

Staff support: None

Plan of Dissertation: no