



Observing Application

Date: Mar 5, 2007
 Proposal ID: VLA/07B-246
Legacy ID: AC890
 PI: Claudio Codella
 Type: Rapid Response
 Exploratory Time
 Category: Galactic
 Total time: 1.5 hour

SiO detection experiment towards the massive protostar G24.78+0.08 A1

Abstract:

With the present Exploratory Time proposal we wish to use the VLA in its D-array configuration to perform a detection experiment in the SiO(1-0) line towards the young massive star G24 A1. The goal is to establish that the SiO(1-0) line emission in this object is sufficiently strong to be observed at higher angular resolution in a follow-up C- or B-array proposal. The final aim of this project will be to study the orientation of the jet and thus confirm or rule out the scenario depicted by us (Beltran et al. 2006) for this region.

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Related proposals:

ag732 ab1114 ab1196 ac765

Joint:

Not a Joint Proposal

Observing type(s):

Spectroscopy, *

Resources:

Resource name	Tele. Conf.	Frontend & Backend	Set up
1	VLA D	Q Band 0.7 cm 40000 - 50000 MHz VLA Correlator - Spectral Line	IF mode: 1 Bandwidth: 12.5 MHz Number of channels: 64 Spectral resolution: 195.313 kHz Rest frequencies: 43423.859 MHz

Sources:

Source name	RA / RA Range	DEC / DEC Range	System	Velocity/z	Group name
G24.78+0.08	18:36:12.6 00:00:00.0	-07:12:10.15 00:00:00	J2000	+111.0 km/s	

Sessions:

Session Name	Session Time	Repeat	Separation	LST Minimum	LST Maximum	Elevation Minimum
1	1.5 hours	1	0 day	15:00:00	22:00:00	25

Session Constraints:

Session Name	Constraint	Comments
1		

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
1	G24.78+0.08/	1	1.5 hour	3mJy/bm

Total Time per Configuration:

Configuration	Total Time
D	1.5

Present for observation: no Staff support: Consultation