



Observing Application

Date: Apr 21, 2007
Proposal ID: VLA/07B-269
Legacy ID: AY181
PI: Min Yun
Type: Rapid Response
Exploratory Time
Category: Extragalactic
Total time: 6.0 hour

A deep map of the HI Emission from a remarkable transforming spiral galaxy

Abstract:

Here we propose to image 21cm HI emission in NGC 4319 as part of the dynamically scheduled observations in the VLA D-array. With the D-array, the proposed observations will provide a deeper map of the 21cm emission in order to trace the more extended and diffuse emission, which will provide insight about whether the galaxy is being transformed by ram pressure stripping, tidal interactions, or both.

Authors:

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Related proposals:

AT333

Joint:

Not a Joint Proposal

Observing type(s):

Spectroscopy, *

Resources:

Resource name	Tele. Conf.	Frontend & Backend	Set up
XGHI	VLA D	L Band 20 cm 1200 - 2000 MHz VLA Correlator - Spectral Line	IF mode: 4 Bandwidth: 3.125 MHz Number of channels: 32 Spectral resolution: 97.656 kHz Rest frequencies: 1420.40575 MHz

Sources:

Source name	RA / RA Range	DEC / DEC Range	System	Velocity/z	Group name
ngc 4319	12:21:44.7 00:00:00.0	+75:19:21 00:00:00	J2000	+1896 km/s	

Sessions:

Session Name	Session Time	Repeat	Separation	LST Minimum	LST Maximum	Elevation Minimum
session 1	6.0 hours	1	0 day	04:00:00	20:00:00	25

Session Constraints:

Session Name	Constraint	Comments
session 1		

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
session 1	ngc 4319/	XGHI	6.0 hour	0.5mJy/bm

Total Time per Configuration:

Configuration	Total Time
D	6.0

Present for observation: no Staff support: None