



Observing Application

Date : Sep, 21 2009
 Proposal ID : VLA/09B-216
 Legacy ID : AK722
 PI : Miriam Krauss-Hartman
 Type : Rapid Response - Target of Opportunity
 Category : Stellar, Galactic
 Total Time : 16.0

The Nature of the Proposed Recurrent Nova V2672 Oph

Abstract:

Observations at radio, optical, and X-ray wavelengths of the new very fast nova V2672 Oph suggest that it might be a recurrent nova and Type Ia supernova progenitor, like RS Oph. In order to: 1) test this hypothesis; 2) follow the development of this interesting nova; and 3) plan VLBI observations that could uncover jets and the expanding ejecta, we propose to observe V2672 Oph at two different frequency bands, likely X and K, every two weeks through January, 2010.

Authors:

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Related proposals:

Characterizing the Early Radio Emission of V2672 (program AK 720)

Joint:

Not a Joint Proposal

Observing type(s):

Continuum, Monitoring

VLA Resources

Name	Conf.	Frontend & Backend	Setup
X Band DnC	DnC	X Band 3.6 cm 8080 - 8750 MHz VLA Correlator - Single Channel Continuum	Rest frequencies: 8435.1, 8485.1 MHz Bandwidth: 50 MHz

Name	Conf.	Frontend & Backend	Setup
X Band D	D	X Band 3.6 cm 8080 - 8750 MHz VLA Correlator - Single Channel Continuum	Rest frequencies: 8435.1,8485.1 MHz Bandwidth: 50 MHz
K Band DnC	DnC	K Band 1.3 cm 18000 - 26500 MHz VLA Correlator - Single Channel Continuum	Rest frequencies: 22485.1,22435.1 MHz Bandwidth: 50 MHz
K Band D	D	K Band 1.3 cm 18000 - 26500 MHz VLA Correlator - Single Channel Continuum	Rest frequencies: 22485.1,22435.1 MHz Bandwidth: 50 MHz

Sources:

Name	RA / RA Range	Dec / Dec Range	Epoch	Velocity / z	Group
V2672 Oph	17:38:19.7 00:00:00.0	-26:44:14 00:00:00	J2000	Velocity : 0.00	V2672 Ophiuchi

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
X Monitoring DnC	1.00	2	14 day	14:00:00	21:00:00	0
K Monitoring DnC	1.00	2	14 day	14:00:00	21:00:00	0
X Monitoring D	1.00	6	14 day	14:00:00	21:00:00	0
K Monitoring D	1.00	6	14 day	14:00:00	21:00:00	0

Session Constraints:

Name	Constraints	Comments

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
X Monitoring DnC	V2672 Oph	X Band DnC	1.0 hour	0.03 mJy/bm	
K Monitoring DnC	V2672 Oph	K Band DnC	1.0 hour	0.2 mJy/bm	
X Monitoring D	V2672 Oph	X Band D	1.0 hour	0.03 mJy/bm	
K Monitoring D	V2672 Oph	K Band D	1.0 hour	0.2 mJy/bm	

Present for observation: yes

Staff support: None

Plan of Dissertation: no