



Observing Application

Date : Apr, 17 2008
Proposal ID : VLA/08A-238
Legacy ID : AS946
PI : Jennifer Sokoloski
Type : Rapid Response - Target
of Opportunity
Category : Stellar
Total Time : 9.0

Bi-Weekly Observations of the Fast Nova V2491 Cyg

Abstract:

We request three months of bi-weekly radio monitoring of the unusual nova V2491 Cyg to check for radio emission due to possible fast thermal jets, as seen in the 2006 outburst of the recurrent nova RS Oph.

Authors:

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Related proposals:

Joint:

Not a Joint Proposal

Observing type(s):

Continuum, Single Pointing(s), Monitoring

VLA Resources

Name	Conf.	Frontend & Backend	Setup
X band	Any	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
Q band	Any	Q Band 0.7 cm 40000 - 50000 MHz VLA Correlator - Single Channel Continuum	Rest frequencies: 43314.9,43364.9 MHz Bandwidth: 50 MHz

Sources:

Name	RA / RA Range	Dec / Dec Range	Epoch	Velocity / z	Group
V2491 Cyg	19:43:02.1 00:00:00.0	+32:19:13 00:00:00	J2000	Velocity : 0.00	V2491 Cyg group

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
V2491 X	0.50	6	14 day	00:00:00	24:00:00	20
V2491 Q	1.00	6	14 day	00:00:00	24:00:00	30

Session Constraints:

Name	Constraints	Comments

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
V2491 X	V2491 Cyg	X band	0.5 hour	0.03 mJy/bm
V2491 Q	V2491 Cyg	Q band	1.0 hour	0.15 mJy/bm

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