



Observing Application

Date : Apr, 04 2011
 Proposal ID : VLA/11A-261
 Legacy ID : AS1099
 PI : Jennifer Sokoloski
 Type : Director's Discretionary
 Time - Target of
 Opportunity
 Category : Energetic Transients and
 Pulsars
 Total Time : 6.0

The ENova Project: Searching for Early Radio Emission from Nova V5588 Sgr

Abstract:

We request 6 hours of EVLA wideband observations to detect the turn-on of radio emission in the newly discovered nova V5588~Sgr, in order to (1)~detect the ejecta while they are completely optically thick, and (2)~search for synchrotron emission from shocks associated with jets and the shaping of the ejecta.

Authors:

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Related proposals:

AS1039, VLA/10B-200, VLA/10B-233, VLA/11A-239, VLA/11A-254, VLA/11B-170

Joint:

Not a Joint Proposal

Observing type(s):

VLA Resources

Name	Conf.	Frontend & Backend	Setup
C wide	Any	C Band 6 cm 4000-8000 MHz WIDAR RSRO	Comments: null
X wide	Any	X Band 3.6 cm 8000 - 12000 MHz WIDAR RSRO	Comments: null
L wide	Any	L Band 20 cm 1000 - 2000 MHz WIDAR RSRO	Comments: null
K wide	Any	K Band 1.3 cm 18000 - 26500 MHz WIDAR RSRO	Comments: null
Ka wide	Any	Ka Band 0.9 cm 26500 - 40000 MHz WIDAR RSRO	Comments: null
Q wide	Any	Q Band 0.7 cm 40000 - 50000 MHz WIDAR RSRO	Comments: null
S wide	Any	S Band 10 cm 2000 - 4000 MHz WIDAR RSRO	Comments: null

Sources:

Name	Position		Velocity		Group
Nova V5588 Sgr	Coordinate System	Equatorial	Convention	Radio	V5588 Sgr
	Equinox	J2000			
	Right Ascension	18:10:21.35 00:00:00.0	Ref. Frame	LSRK	
	Declination	-23:05:30.6 00:00:00.0	Velocity	0.00	

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
V5588Sgr Look	2.00	3	10 day	00:00:00	24:00:00	0

Session Constraints:

Name	Constraints	Comments
V5588Sgr Look		We propose observing ASAP; a week later; then at an age of ~50 days.