



Observing Application

Date : Aug, 22 2008
 Proposal ID : VLA/08C-232
 Legacy ID : AK710
 PI : Shri Kulkarni
 Type : Rapid Response - Target
 of Opportunity
 Category : Stellar
 Total Time : 2.0

New Soft Gamma-ray Repeater 0501+4516

Abstract:

Swift detected a new bursting source which was later found to be a 5.8-s soft gamma ray repeater (SGR) by RXTE. The source is located at low Galactic latitudes in the Perseus arm. Likely this is object is the nearest SGR. We propose to undertake a search for a radio nebula associated with this new SGR.

Authors:

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Related proposals:

Joint:

Not a Joint Proposal

Observing type(s):

Continuum

VLA Resources

Name	Conf.	Frontend & Backend	Setup
SGR L-band	Any	L Band 20 cm 1000 - 2000 MHz VLA Correlator - Single Channel Continuum	Rest frequencies: 1464.9,1385.1 MHz Bandwidth: 50 MHz
SGR 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

Sources:

Name	RA / RA Range	Dec / Dec Range	Epoch	Velocity / z	Group
SGR501+4516	05:01:06.7 00:00:00.0	+45:16:34 00:00:00	J2000	Velocity : 0.00	SGR 0501+4516

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
L-band	1.00	1	0 day	00:00:00	24:00:00	0
X-band	1.00	1	0 day	00:00:00	24:00:00	0

Session Constraints:

Name	Constraints	Comments

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
L-band	SGR501+4516	SGR L-band	1.0 hour	0.1 mJy/bm	
X-band	SGR501+4516	SGR X-band	1.0 hour	0.05 mJy/bm	

Present for observation: no

Staff support: None

Plan of Dissertation: no