

# **Observing Application**

Date : Sep, 27 2010 Proposal ID : VLA/10B-243 Legacy ID : AV325 PI : Alexander van der Horst Type : Rapid Response - Target of Opportunity Category : Galactic Total Time : 10.0

#### EVLA follow-up of the new transient MAXI J1659-152

#### Abstract:

Swift BAT discovered a new transient that was first classified as a gamma-ray burst, but later it was re-classified as a new Galactic transient (MAXI J1659-152) because of MAXI observations and the source location close to the Galactic bulge. The nature of the source is still uncertain. Many facilities are observing this object at the moment, from radio to gamma-ray frequencies. A bright source was discovered at 4.8 GHz with the WSRT, and it showed a high degree of polarization. Further follow-up at multiple radio frequencies would provide great insight in the nature of, and the physics behind, this new transient source.

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#### Related proposals:

#### Joint:

Not a Joint Proposal

#### Observing type(s):

Continuum

#### VLA Resources

Name Conf. Frontend & Backend Setup
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Name	Conf.	Frontend & Backend	Setup
myXX	Any	X Band 3.6 cm 8080 - 8750 MHz	Rest frequencies: 8396.0, 8524.0 MHz Bandwidth: 128.0 MHz
		WIDAR OSRO1: 2 Subbands/Full polz	No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz
туКК	Any	K Band 1.3 cm 18000 - 26500 MHz	Rest frequencies: 22396.0, 22524.0 MHz Bandwidth: 128.0 MHz
		WIDAR OSRO1: 2 Subbands/Full polz	No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz
myQQ	Any	Q Band 0.7 cm 40000 - 50000 MHz	Rest frequencies: 43216.0, 43344.0 MHz Bandwidth: 128.0 MHz
		WIDAR OSRO1: 2 Subbands/Full polz	No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz
myCC	Any	C Band 6 cm 4000-8000 MHz	Rest frequencies: 4896.0, 5024.0 MHz Bandwidth: 128.0 MHz
		WIDAR OSRO1: 2 Subbands/Full polz	No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz

## Sources:

Name	Position		Velocity		Group
J1659-152	Coordinate System	Equatorial	Commention	Radio	MAXI J1659-152
	Equinox	J2000	Convention		
	Right Ascension	16:59:01.58	Ref. Frame	LSRK	
		00:00:00.0			
	Declination	-15:15:28.4	Velocity	0.00	
		00:00:00.0			
J1719+1745	Coordinate System	Equatorial	Convention	Radio	MAXI J1659-152
	Equinox	J2000	Convention		
	Right Ascension	17:19:13.48	Ref. Frame	LSRK	
		00:00:00.0			
	Declination	+17:45:06.437	Velocity	0.00	
		00:00:00.0			

## Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
all	2.00	5	1 day	14:00:00	20:00:00	15

## **Session Constraints:**

Name	Constraints	Comments
all	ideally we would like to observe for 1 hour at intervals of 1, 2, 4, and 7 days	