



Observing Application

Date : Aug, 05 2011
 Proposal ID : VLA/11B-212
 Legacy ID : AC1080
 PI : Laura Chomiuk
 Type : Director's Discretionary
 Time - Target of
 Opportunity
 Category : Energetic Transients and
 Pulsars
 Total Time : 10.0

EVLA Monitoring fo the Peculiar Supernova SN 2011ei

Abstract:

We request 10 hours of EVLA/OSRO time to monitor the peculiar broad-lined supernova SN 2011ei. This hypernova appears to be a member of a small but growing class of explosions that show trace amounts of hydrogen in their optical spectra and display distinctive radio light curves with multiple rebrightenings. We have already detected SN 2011ei at 5 GHz in two epochs, but further monitoring is needed to fully trace its radio evolution.

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Related proposals:

10C-168

Joint:

Not a Joint Proposal

Observing type(s):

Continuum, Single Pointing(s), Monitoring

VLA Resources

Name	Conf.	Frontend & Backend	Setup
C	Any	C Band 6 cm 4000-8000 MHz WIDAR OSRO1: 2 Subbands/Full polz	Rest frequencies: 4896,4960 MHz Subband Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz
X	Any	X Band 3.6 cm 8000 - 12000 MHz WIDAR OSRO1: 2 Subbands/Full polz	Rest frequencies: 8396.0,8524.0 MHz Subband Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz
S	Any	S Band 10 cm 2000 - 4000 MHz WIDAR OSRO1: 2 Subbands/Full polz	Rest frequencies: 2500.0,3500.0 MHz Subband Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz

Sources:

Name	Position		Velocity		Group
SN 2011ei	Coordinate System	Equatorial	Convention	Radio	SN
	Equinox	J2000			
	Right Ascension	20:34:22.6 00:00:00.0	Ref. Frame	LSRK	
	Declination	-31:58:23.6 00:00:00.0	Velocity	0.00	

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
SNlbc	2.00	5	0 day	00:00:00	24:00:00	0

Session Constraints:

Name	Constraints	Comments
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