



Observing Application

Date : Nov, 30 2007
 Proposal ID : VLA/08B-106
 Legacy ID : AC924
 PI : Poonam Chandra
 Type : Rapid Response -
 Exploratory Time
 Category : Extragalactic
 Total Time : 9.0

VLA observation of a bright radio and X-ray Type IIIn supernova 2006jd

Abstract:

SN 2006jd is a Type IIIn supernova which was detected in X-rays with very high luminosity. We observed it with the VLA in C, X and K bands. We detected the supernova in all three wavebands. We now request for 9 hours of VLA observations to do the follow-up observations of the evolution of SN 2006jd.

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Related proposals:

Joint:

Not a Joint Proposal

Observing type(s):

Continuum

VLA Resources

Name	Conf.	Frontend & Backend	Setup
SN-X	B	X Band 3.6 cm 8080 - 8750 VLA Correlator - Single	Rest frequencies: 8435.1,8485.1 MHz Bandwidth: 50 MHz
SN-C	B	C Band 6 cm 4200-7700 MHz VLA Correlator - Single	Rest frequencies: 4885.1,4835.1 MHz Bandwidth: 50 MHz

Name	Conf.	Frontend & Backend	Setup
SN-K	B	K Band 1.3 cm 18000 - VLA Correlator - Single	Rest frequencies: 22485.1,22435.1 MHz Bandwidth: 50 MHz
SN-L	B	L Band 20 cm 1200 - 2000 VLA Correlator - Single	Rest frequencies: 1464.9,1385.1 MHz Bandwidth: 50 MHz

Sources:

Name	RA / RA Range	Dec / Dec Range	Epoch	Velocity / z	Group
2006jd	08:02:07.4 00:00:00.0	+00:48:31 00:00:00	J2000	Velocity : 0.00	SN

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
SN-Obs-1	0.50	3	45 day	04:00:00	12:00:00	0
SN-Obs-2	0.50	3	45 day	04:00:00	12:00:00	0
SN-Obs-3	1.00	3	45 day	04:00:00	12:00:00	0
SN-Obs-4	1.00	3	45 day	04:00:00	12:00:00	0

Session Constraints:

Name	Constraints	Comments

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
SN-Obs-1	2006jd	SN-X	0.5 hour	0.03 mJy/bm
SN-Obs-2	2006jd	SN-C	0.5 hour	0.04 mJy/bm
SN-Obs-3	2006jd	SN-K	1.0 hour	0.06 mJy/bm
SN-Obs-4	2006jd	SN-L	1.0 hour	0.06 mJy/bm

Present for observation: no

Staff support: None

Plan of Dissertation: no