



Observing Application

Date: Nov 11, 2006
Proposal ID: VLA/06C-268
Legacy ID: AO216
PI: Eran Ofek
Type: Rapid Response
Exploratory Time
Category: Extragalactic
Total time: 0.90000004 hour

SN 2006gy : Brightest Supernova or New Type of Transient?

Abstract:

We propose to observe the extremely luminous (absolute magnitude -22) supernova-like event in NGC~1260. Some of the properties of this event resemble those of type IIn supernovae, which in many cases is known to have radio emission. The overwhelming brightness and long duration of this event, suggest that it is either the brightest supernova ever detected or a new kind of transient phenomena.

Authors:

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Joint:

Not a Joint Proposal

Observing type(s):

Continuum, *

Resources:

Resource name	Tele. Conf.	Frontend & Backend	Set up
L band	VLA C	L Band 20 cm 1240 - 1700 MHz VLA Correlator - Single Channel Continuum	Bandwidth: 50 MHz Rest frequencies: 1464.9,1385.1 MHz
C band	VLA C	C Band 6 cm 4500 - 5000 MHz VLA Correlator - Single Channel Continuum	Bandwidth: 50 MHz Rest frequencies: 4885.1,4835.1 MHz
U band	VLA C	U Band 2 cm 14650 - 15325 MHz VLA Correlator - Single Channel Continuum	Bandwidth: 50 MHz Rest frequencies: 14964.9,14914.9 MHz

Sources:

Source name	RA / RA Range	DEC / DEC Range	System	Velocity/z	Group name
NGC 1260	03:17:27.4 00:00:00.0	+41:24:17 00:00:00	J2000	z = +.018409	

Sessions:

Session Name	Session Time	Repeat	Separation	LST Minimum	LST Maximum	Elevation Minimum
SN2006gy_obs1	0.90000004 hour	1	0 day	00:00:00	24:00:00	0

Session Constraints:

Session Name	Constraint	Comments
SN2006gy_obs1	desired - within five days.	

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
SN2006gy_obs1	NGC 1260/	C band	0.3 hour	0.1mJy/bm
SN2006gy_obs1	NGC 1260/	L band	0.3 hour	0.1mJy/bm
SN2006gy_obs1	NGC 1260/	U band	0.3 hour	0.1mJy/bm

Total Time per Configuration:

Configuration	Total Time
C	0.90000004