



Observing Application

Date : Feb, 14 2011
 Proposal ID : VLA/11A-253
 Legacy ID : AB1400
 PI : Edo Berger
 Type : Director's Discretionary
 Time - Target of Opportunity
 Category : Energetic Transients and Pulsars
 Total Time : 9.0

Monitoring the Complex Afterglow of GRB 110205A

Abstract:

We request nine hours of telescope time to further monitor the afterglow properties of GRB 110205A. There is considerable optical and X-ray followup of this interesting burst, which had an optical peak of 14 mag and an unusually large isotropic-equivalent energy (10^{54} erg). We detected this source at K-band and C-band as part of our program 10C-145, but more extensive followup observations are required to separate the two emission components arising from a reverse and forward shock scenario and to measure the jet opening angle.

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Related proposals:

AB1323, AK634, AK681, AK706, AK718, AK730, 10C-145

Joint:

Not a Joint Proposal

Observing type(s):

Continuum, Spectroscopy

VLA Resources

Name	Conf.	Frontend & Backend	Setup
Kband	Any	K Band 1.3 cm 18000 - 26500 MHz WIDAR RSRO	Comments: null

Name	Conf.	Frontend & Backend	Setup
Cband	Any	C Band 6 cm 4000-8000 MHz WIDAR RSRO	Comments: null

Sources:

Name	Position		Velocity		Group
GRB110205a	Coordinate System	Equatorial	Convention	Radio	BrightGRB
	Equinox	J2000			
	Right Ascension	10:58:31.1	Ref. Frame	LSRK	
		00:00:00.0			
Declination	+67:31:30.8	Velocity	0.00		
	00:00:00.0				

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
Klook	2.00	3	6 day	6:00:00	16:00:00	30
Clook	1.00	3	6 day	6:00:00	16:00:00	30

Session Constraints:

Name	Constraints	Comments
Klook		K and C band observations can be in one large 3 hour block or separate observations within a day of each other.
Clook		K and C band observations can be in one large 3 hour block or separate observations within a day of each other.

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
Klook	GRB110205a	Kband	2.0 hour	0.01 mJy/bm	
Clook	GRB110205a	Cband	1.0 hour	0.015 mJy/bm	

Present for observation: yes

Staff support: None

Plan of Dissertation: no