Observing Application

Date : May, 23 2008
Proposal ID : VLA/08A-243
Legacy ID : AS951
PI : Alicia Soderberg
Type : Rapid Response - Target of Opportunity
Category : Extragalactic
Total Time : 10.0

Follow-up for the Mysterious Transient in NGC 300

Abstract:

Under an approved DDT request (AS950), on May 21.65 UT we observed the luminous optical transient in NGC 300 (z=0.00048) with the VLA at 8.46 GHz. It has been reported that this transient is similar optically to the extraordinary outbursting V838 Mon, the nature of which is still heavily debated. Remarkably, in our VLA observation we detect (marginally) radio emission from the NGC 300 transient. Here we request ToO follow-up observations to confirm this detection and monitor the evolution.

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Related proposals:

AS950

Joint:

Not a Joint Proposal

Observing type(s):

Continuum

VLA Resources

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

Sources:

Name	RA / RA Range	Dec / Dec Range	Epoch	Velocity / z	Group
NGC300-S1	00:54:34.2 00:00:00.0	-37:38:28 00:00:01	J2000	Velocity : 0.00048	NGC300

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
X-band	1.00	5	3 day	23:00:00	02:00:00	0
C-band	1.00	5	3 day	23:00:00	02:00:00	0

Session Constraints:

Name	Constraints	Comments

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
X-band	NGC300-S1	X	1.0 hour	0.03 mJy/bm	
C-band	NGC300-S1	C	1.0 hour	0.03 mJy/bm	

Present for observation: no   Staff support: None   Plan of Dissertation: no