Observing Application

Date :	Sep, 01 2008
Proposal ID :	VLA/08C-238
Legacy ID :	AS967
PI :	Joanna Skilton
Type :	Rapid Response - Exploratory Time
Category :	Stellar, Galactic
Total Time :	3.0

A high resolution measurement of the likely new gamma-ray binary HESS

Abstract:

Recent D-configuration VLA observations of the likely new gamma-ray binary system HESS J0632+057 have revealed a faint (~0.3 mJy), variable, point like source. Rapid response VLA observations of this source in A configuration are requested both to dramatically improve the constraint on the size of the emitting region, and to measure the spectral index of the source.

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Related proposals:

AS944

Joint:

Not a Joint Proposal

Observing type(s):

Continuum, Single Pointing(s)

VLA Resources

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

Sources:

Name	RA / RA Range	Dec / Dec Range	Epoch	Velocity / z	Group
MWC148	06:32:59.3 00:00:00.0	+05:48:01 00:00:00	J2000	Velocity : 0.00	MWC 148

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
5GHz	1.50	1	0 day	03:30:00	09:30:00	40
8GHz	1.50	1	0 day	03:30:00	09:30:00	40

Session Constraints:

Name	Constraints	Comments

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
5GHz	MWC148	6cm	1.5 hour	0.03 mJy/bm	
8GHz	MWC148	3.6cm	1.5 hour	0.03 mJy/bm	

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