



Observing Application

Date: May 16, 2006
 Proposal ID: VLA/06A-005
 Legacy ID: A-K2
 Type: Regular
 Joint: Not a Joint Proposal
 Category: Galactic
 Total time: 2.0 hour

Jet Driven Water Masers in GRS 1915+105

Abstract:

With the Effelsberg 100 m telescope, we have detected a water maser line in the direction of the southern lobe associated with the microquasar GRS 1915+105. We ask for one hour of Exploratory Time to determine its position and precise relation to the lobe and determine if it is worthwhile to submit a monitoring proposal for the next VLA deadline.

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Observing type(s):

Spectroscopy

Resources:

Resource name	Tele. Conf.	Frontend & Backend	Set up
watermaser	VLA A	K Band 1.3 cm 21200 - 25200 MHz VLA Correlator - Multi-Channel	IF mode: 2 Bandwidth: 3.125 MHz Number of channels: 64 Spectral resolution: 48.828 kHz Rest frequencies: 22.235080 GHz

Sources:

Source name	RA	DEC	System	RA range	DEC range	Velocity/z	Group name
GRS 1915 South lobe	19:15:39.4	10:41:15	J2000	00:00:00	00:00:00	66.0 Km/s	

Sessions:

Session Name	Session Time	Repeat	Separation	LST Minimum	LST Maximum	Elevation Minimum
waterelmar	1.0 hour	1	0 day			
waterelmar2	1.0 hour	1	0 day			

Session Constraints:

Session Name	Constraint	Comments
waterelmar		
waterelmar2		

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
waterelmar	GRS 1915 South lobe	watermaser	1.0 hour	mJy/bm
waterelmar2	GRS 1915 South lobe	watermaser	1.0 hour	mJy/bm

Session Resource/Source Constraints:

Session/Source/Resource	Comments
waterelmar/GRS 1915 South lobe/watermaser	
waterelmar2/GRS 1915 South lobe/watermaser	

Present for observation: no Staff support: Consultation