



Observing Application

Date : Oct, 18 2010
 Proposal ID : VLA/10C-228
 Legacy ID : AV327
 PI : Alexander van der Horst
 Type : Rapid Response - Target
 of Opportunity
 Category : Galactic
 Total Time : 3.0

Radio follow-up of the black-hole candidate MAXI J1659-152

Abstract:

MAXI J1659-152 was discovered as a peculiar hard X-ray transient, and observations across the electromagnetic spectrum have shown that the source is an X-ray binary, in fact the shortest period black-hole candidate. Many facilities are observing this object at the moment, from radio to gamma-ray frequencies. The source is now in an X-ray state transition in which fast radio jets may emerge. Further EVLA follow-up would provide valuable data to probe the physics of the radio jet.

Authors:

Name	Institution	Email	Status
Alexander van der Horst	National Aeronautics and Space Administration	Alexander.J.VanDerHorst@nasa.gov	
Greg Taylor	New Mexico, University of	gbtaylor@unm.edu	
Jonathan Granot	Please contact me to add my Institution	j.granot@herts.ac.uk	
Chryssa Kouveliotou	National Aeronautics and Space Administration	chryssa.kouveliotou@nasa.gov	
Zsolt Paragi	Joint Institute for VLBI in Europe	zparagi@jive.nl	
Justin Linford	New Mexico, University of	jlinford@unm.edu	Graduating: 2013 Thesis: false
Ralph Wijers	Universiteit van Amsterdam	rwijers@science.uva.nl	
Michael Garrett	Netherlands Foundation for Research in Astronomy	garrett@astron.nl	
Enrico Ramirez-Ruiz	University of California	enrico@ias.edu	
Atish Kamble	Raman Research Institute	atish@rri.res.in	Graduating: 2007 Thesis: false
Erik Kuulkers		Erik.Kuulkers@sciops.esa.int	
Tomaso Belloni		tomaso.belloni@brera.inaf.it	
Antonio de Ugarte Postigo	DARK	deugarte@iaa.es	
Andreas Lundgren	European Southern Observatory	alundgre@eso.org	
Robert Fender	Southampton, University of	rpf@phys.soton.ac.uk	

Principal Investigator: Alexander van der Horst
 Contact: Alexander van der Horst
 Telephone:
 Email: Alexander.J.VanDerHorst@nasa.gov

Related proposals:

Joint:

Not a Joint Proposal

Observing type(s):

Continuum

VLA Resources

Name	Conf.	Frontend & Backend	Setup
myXX	Any	X Band 3.6 cm 8080 - 8750 MHz WIDAR OSRO1: 2 Subbands/Full polz	Rest frequencies: 8396.0, 8524.0 MHz Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 128.0 MHz
myKK	Any	K Band 1.3 cm 18000 - 26500 MHz WIDAR OSRO1: 2 Subbands/Full polz	Rest frequencies: 22396.0, 22524.0 MHz Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 128.0 MHz
myCC	Any	C Band 6 cm 4000-8000 MHz WIDAR OSRO1: 2 Subbands/Full polz	Rest frequencies: 4896.0, 5024.0 MHz Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 128.0 MHz

Sources:

Name	Position		Velocity		Group
J1659-152	Coordinate System	Equatorial	Convention	Radio	MAXI J1659-152
	Equinox	J2000			
	Right Ascension	16:59:01.58 00:00:00.0	Ref. Frame	LSRK	
	Declination	-15:15:28.4 00:00:00.0	Velocity	0.00	
J1719+1745	Coordinate System	Equatorial	Convention	Radio	MAXI J1659-152
	Equinox	J2000			
	Right Ascension	17:19:13.48 00:00:00.0	Ref. Frame	LSRK	
	Declination	+17:45:06.437 00:00:00.0	Velocity	0.00	

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
monitor	1.00	3	4 day	14:00:00	20:00:00	0

Session Constraints:

Name	Constraints	Comments
monitor		would like first epoch on Oct 19