

# **Observing Application**

Date : Jun, 11 2007 Proposal ID : VLA/07C-228 Legacy ID : AW728 PI : Ran Wang Type : Rapid Response -Exploratory Time Category : Extragalactic Total Time : 12.00

# Radio continuum of optically faint quasars at z>6

### Abstract:

We propose to observe four quasars at z>6 with the VLA A configuration in dynamic time. These four sources were optically selected from the Canada-France High-z Quasar Survey. They are about one magnitude fainter in the optical than the main z-6 quasar sample discovered from the SDSS survey. With the observations described in this proposal, we will expand our radio study of z-6 quasars to the optically faint population. The goals of our program are (i) to study the general radio properties of these faint quasars at z-6 and investigate the evolution of quasar radio activity with redshift and optical luminosity, and (ii) to study the FIR-to-radio SEDs of these extreme objects and search for co-eval active star formation with black hole accretion in the massive quasar hosts close to the epoch of cosmic reionization.

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#### **Related proposals:**

# Observing type(s):

Continuum

## **GBT Resources**

### Sources:

Name	RA / RA Range	Dec / Dec Range	Epoch	Velocity / z	Group
J0033-0125	00:33:11.4	-1:25:24	J2000	Velocity: 0	Unspecified Group
	0.00:00:00	00:00:00			
J1509-1749	15:09:41.8	-17:49:26	J2000	Velocity : 0	Unspecified Group
	0.00:00:00	00:00:00			
J1641+3755	16:41:21.6	+37:55:20	J2000	Velocity: 0	Unspecified Group
	0.00:00:00	00:00:00			
J2329-0301	23:29:08.3	-3:01:58	J2000	Velocity : 0	Unspecified Group
	00:00:00	00:00:00			

#### Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
Lband_obs	12.00	1	0 day	00:00:00	24:00:00	0

# **Session Constraints:**

Name	Constraints	Comments

# Session Source/Resource Pairs:

Present for observation: no

Staff support: Consultation