

Date:Jul 7, 2006 Proposal ID:VLA/06C-255

Legacy ID:AW695 PI: Ran Wang

Type:Rapid Response Exploratory Time

Category: Extragalactic Total time: 2.0 hour

VLA observation of an optically fainter z=5.85 QSO

Abstract:

We propose to observe a recent discovered z~6 QSO with VLA at 1.4GHz. We have done a series of radio observations to study the radio continuum properties of the z~6 QSOs. Up to now, all of the Sloan Digital Sky Survey discovered z~6 QSOs have been proposed with VLA at 1.4GHz, and the observations are nearly finished. This proposed source, J1425+325 (z=5.85), is discovered by the AGN and Galaxy Evolution Survey and published very recently. We propose a 2-hour observation in dynamic time for this source as a primary radio continuum investigation and to complete the radio continuum survey for all the optical discovered z~6 QSOs. This proposal is a necessary extension as our goals of this study are (1) to investigate the co-eval black hole and spheroidal galaxy formation at reionization epoch and (2) to seach the radio properties of the host galaxies of the most distant QSOs.

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Related proposals: AC823, AC803

Joint:

Not a Joint Proposal

Observing type(s): Continuum, *

Resources:

Resource name	Tele. Conf.	Frontend & Backend	Set up
·	В	Continuum	Bandwidth: 50 MHz Rest frequencies: 1464.9,1385.1 MHz

Sources:

Source name	RA / RA Range	DEC / DEC Range	System	Velocity/z	Group name
J1425+325	14:25:16.3	+32:54:09	J2000	z = 5.85	
	0.00:00.0	00:00:00			

Sessions:

Session Name	Session Time	Repeat	Separation	LST Minimum	LST Maximum	Elevation
						Minimum
B-Config-L	2.0 hours	1	0 day	00:00:00	00:00:00	0

Session Constraints:

Session Name	Constraint	Comments	
B-Config-L			

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
B-Config-L	J1425+325/	z6_L20cm	2.0 hour	0.026mJy/bm

Total Time per Configuration:

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Configuration	Total Time
В	2.0