



1218 - NIRSpec-IFU Observations of a QSOs at $z=6$

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Nora Luetzgendorf (PI)	Space Telescope Science Institute - ESA - JWST	nluetzgendorf@stsci.edu
Dr. Roberto Maiolino (CoI) (ESA Member) (Contact)	University of Cambridge	r.maiolino@mrao.cam.ac.uk
Dr. Santiago Arribas (CoI) (ESA Member) (Contact)	Consejo Superior de Investigaciones Cientificas	arribas@cab.inta-csic.es
Dr. Pierre Ferruit (CoI) (ESA Member)	ESA-European Space Astronomy Centre	pierre.ferruit@esa.int

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	2	NIRSpec IFU observation of J0100	NIRSpec IFU Spectroscopy	(2) J0100+2802

ABSTRACT

The goal of the observations is to map (redshifted) optical nebular lines in the host galaxy and circumgalactic region of a luminous quasars at $z\sim 6$ (SDSS J0100+2802). The observations (obtained with the high resolution grating) will also be used to detect and characterize the quasar-driven outflows.

Submission April 2022:

- coordinates updated after the discovery of NED' s bug (Dec: +28 02 55.80 (old) --> +28 02 25.80 (new))
- PA constraint slightly modified as a consequence of the coordinates change

OBSERVING DESCRIPTION

Contact: Roberto Maiolino (r.maiolino@mrao.cam.ac.uk)

The NIRSspec IFU observations are done with the G395H grating and are aimed aimed primarily at mapping the strongest optical nebular lines (Hbeta, [OIII], Halpha, [NII]) in order to trace the distribution and kinematics of the medium in the host galaxy and the circumgalactic region.

We are not using TA as Gaia GS are available for any orientation, hence ensuring a pointing accuracy adequate for our goals.

PA has been restricted to minimise MSA leakage effects

Proposal 1218 - Targets - NIRSpec-IFU Observations of a QSOs at z=6

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(2) <i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Quasars] Extended=YES		J0100+2802	RA: 01 00 13.0200 (15.0542500d) Dec: +28 02 25.80 (28.04050d) Equinox: J2000	

Proposal 1218 - Observation 2 - NIRSpec-IFU Observations of a QSOs at z=6

Tue Aug 23 21:05:37 GMT 2022

Observation	<p>Proposal 1218, Observation 2: NIRSpec IFU observation of J0100</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: PA restricted to minimise MSA leakage by (bright) background sources</i></p>											
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	J0100+2802	RA: 01 00 13.0200 (15.0542500d) Dec: +28 02 25.80 (28.04050d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Quasars]</i> <i>Extended=YES</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		6					
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Ex p	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2	25	1	false	true	NONE	6	6	11029.201	
Special Requirements	Aperture PA Range 213.892975 to 233.892975 Degrees (V3 74.92836013 to 94.92836013)											