



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>
Dr. Pierre Ferruit (PI) (ESA Member)	European Space Agency - ESTEC	pierre.ferruit@esa.int
Dr. Roberto Maiolino (CoI) (ESA Member) (Cont act)	University of Cambridge	r.maiolino@mrao.cam.ac.uk
Dr. Santiago Arribas (CoI) (ESA Member)	Consejo Superior de Investigaciones Cientificas	arribas@cab.inta-csic.es

OBSERVATIONS

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

ABSTRACT

Update June 2019: We have removed: J1148 +5251 and we have added R100 observations for J0100 +2802

Previous submission (STScI Edit number=5)

This proposal is associated with NIRSpec Observation IDs:

FERRUIT_3051

FERRUIT_3052

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

OBSERVING DESCRIPTION

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

The NIRSpec IFU observations are done with the G395H grating and are aimed primarily at mapping the strongest optical nebular lines (H β , [OIII], H α , [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.

We use NRSIRS2RAPID in order to better identify and remove cosmic rays.

PA has been restricted to minimise MSA leakage effects

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

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(2)	J0100+2802	RA: 01 00 13.0200 (15.0542500d) Dec: +28 02 55.80 (28.04883d) Equinox: J2000		
Comments: Category=Galaxy Description=[High-redshift galaxies, Quasars] Extended=YES					

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

Observation	Proposal 1218, Observation 2: NIRSpec IFU observation of J0100 Mon Jun 24 18:02:42 GMT 2019											
	Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
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 55.80 (28.04883d) Equinox: J2000									
Template	<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Quasars] Extended=YES											
	TA Method NONE											
Dithers	#	Dither Type		Size		Starting Point		Number of Points		Points		
	1	CYCLING		MEDIUM		1		4				
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2RAPID	185	1	false	true	NONE	4	4	10854.134	
	2	PRISM/CLEAR	NRSIRS2RAPID	62	1	false	true	NONE	4	4	3676.4	
	3	PRISM/CLEAR	NRSIRS2RAPID	62	1	true	false	NONE	1	1	919.1	
Special Requirements	Aperture PA Range 201.892975 to 212.892975 Degrees (V3 63.0 to 74.0)											