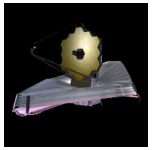

12570 - Identifying the progenitors of a complete sample of long gamma-ray bursts

Cycle: 3, Proposal Category: GO

INVESTIGATORS

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Dr. Tanmoy Laskar (CoI)	University of Utah
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Prof. Ilya Mandel (CoI)	Monash University

OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
Observation Folder				
	1		NIRSpec Fixed Slit Spectroscopy	(1) GRB240825A
	2		NIRSpec Fixed Slit Spectroscopy	(2) GRB241001A
	3		NIRSpec Fixed Slit Spectroscopy	(3) GRB241010A
	4		NIRSpec Fixed Slit Spectroscopy	(4) EP250108a
	5		NIRSpec Fixed Slit Spectroscopy	(5) GRB5
	6		NIRSpec Fixed Slit Spectroscopy	(6) GRB6
	7		NIRSpec Fixed Slit Spectroscopy	(7) GRB7
	8		NIRSpec Fixed Slit Spectroscopy	(8) GRB8
	9		NIRSpec Fixed Slit Spectroscopy	(9) GRB9
	10		NIRSpec Fixed Slit Spectroscopy	(10) GRB10
	11		NIRSpec Fixed Slit Spectroscopy	(11) GRB11
	12		NIRSpec Fixed Slit Spectroscopy	(12) GRB12
	13		NIRSpec Fixed Slit Spectroscopy	(13) GRB13
	14		NIRSpec Fixed Slit Spectroscopy	(14) GRB14
	15		NIRSpec Fixed Slit Spectroscopy	(15) GRB15

ABSTRACT

The discovery of kilonovae alongside gamma-ray bursts (GRBs) lasting tens of seconds or more has sparked a paradigm shift in our understanding of the diversity of jets launched by merging neutron stars. The prototypes of this new class are two of the brightest GRBs ever detected, strongly

suggesting a hidden population that are systematically misclassified as collapsing massive stars - the canonical model for GRBs that last for more than two seconds. Long-lived mergers have palpable implications for binary neutron star merger rates, heavy element nucleosynthesis, the physics of relativistic jet launch, and multi-messenger follow-up strategies to gravitational wave events. We propose NIRSpec observations over the next three JWST cycles to systematically target and classify 15 emergent GRBs at $z < 1$ as either mergers or collapsars based on spectroscopic identification or exclusion of supernovae. We will build the first 'clean' observational samples of collapsars and mergers to investigate their respective rates and observable properties. For mergers up to $z = 0.5$, we expect to make spectral detections of kilonovae, potentially resulting in the largest spectroscopic sample of this rare class of transient to date. We will also extend the redshift range of detected type Ic broad-lined supernovae, which accompany long GRBs, out to $z = 1$. This will allow us to uniquely probe their evolution at redshift $0.5 < z < 1$ for the first time, providing insights into how the composition of massive stars and their host galaxies change in this cosmic epoch.

OBSERVING DESCRIPTION

We request NIRSpec observations of 15 well-localised GRBs with confirmed redshifts of up to $z \sim 1$. These are targets of opportunity, and so are not known in advance. Observations will take place over a 3-year period to build unbiased, systematic samples of GRBs from stellar collapse and from long-lived mergers. We aim to spectroscopically detect or rule out supernovae, and detect kilonovae where sufficiently nearby ($z \sim 0.5$ or less). We will use the Prism/CLEAR grating/filter pair and the S200A1 slit (0.2" x 3.8"). The detector setup utilises the full subarray and the NRSIRS2RAPID readout pattern.

Acquisition will be done with WATA using an offset star, but this cannot be planned until the observations are known.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	GRB240825A	RA: 22 58 17.2640 (344.5719333d) Dec: +01 01 36.77 (1.02688d) Equinox: J2000		
Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*				
(2)	GRB241001A	RA: 01 22 12.7510 (20.5531292d) Dec: -43 28 31.95 (-43.47554d) Equinox: J2000		
Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*				
(3)	GRB241010A	RA: 10 13 31.5340 (153.3813917d) Dec: +11 32 3.20 (11.53422d) Equinox: J2000		
Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*				
(4)	EP250108a	RA: 03 42 28.3920 (55.6183000d) Dec: -22 30 21.27 (-22.50591d) Equinox: J2000		
Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*				
(16)	GRB240825A_acq_star	RA: 22 58 18.1550 (344.5756458d) Dec: +01 00 49.13 (1.01365d) Equinox: J2000		
Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*				
(17)	GRB241001A_acq_star	RA: 01 22 13.5030 (20.5562625d) Dec: -43 29 1.98 (-43.48388d) Equinox: J2000		
Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*				
(18)	GRB241010A_acq_star	RA: 10 13 30.9380 (153.3789083d) Dec: +11 31 59.89 (11.53330d) Equinox: J2000		
Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*				

	(19)	EP250108a_acq_star	RA: 03 42 28.3330 (55.6180542d) Dec: -22 30 24.69 (-22.50686d) Equinox: J2000
	Comments: *Category=Star* *Description=[Gamma Ray bursters]* *Extended=NO*		

Generic Targets

#	Name	Criteria	Description
(5)	GRB5	GRB at z <~ 1	
(6)	GRB6	GRB at z <~ 1	
(7)	GRB7	GRB at z <~ 1	
(8)	GRB8	GRB at z <~ 1	
(9)	GRB9	GRB at z <~ 1	
(10)	GRB10	GRB at z <~ 1	
(11)	GRB11	GRB at z <~ 1	
(12)	GRB12	GRB at z <~ 1	
(13)	GRB13	GRB at z <~ 1	
(14)	GRB14	GRB at z <~ 1	
(15)	GRB15	GRB at z <~ 1	

Observation

Proposal 12570, Observation 1

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Observation 1) Warning (Form): The slew between the acquisition exposure and the farthest science exposure is 61.261 Arcsec (larger than the recommended limit of 40.000 Arcsec) and may result in reduced or no schedulability. See more information in the diagnostic browser.

(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	GRB240825A	RA: 22 58 17.2640 (344.5719333d) Dec: +01 01 36.77 (1.02688d) Equinox: J2000		

Comments:
Category=Star
Description=[Gamma Ray bursters]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	16 GRB240825A_acq_star	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	
	Before Date 10-NOV-2024:00:00:00 Aperture PA Range 210 to 215 Degrees (V3 71.15809631 to 76.15809631)

Observation

Proposal 12570, Observation 2

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit 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)	GRB241001A	RA: 01 22 12.7510 (20.5531292d) Dec: -43 28 31.95 (-43.47554d) Equinox: J2000		

Comments:
Category=Star
Description=[Gamma Ray bursters]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	17 GRB241001A_acq_star	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S400A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Between Dates 22-OCT-2024:00:00:00 and 29-OCT-2024:00:00:00

Observation

Proposal 12570, Observation 3

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 3:1) Warning (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	GRB241010A	RA: 10 13 31.5340 (153.3813917d) Dec: +11 32 3.20 (11.53422d) Equinox: J2000		

Comments:
Category=Star
Description=[Gamma Ray bursters]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	18 GRB241010A_acq_star	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	215368

Template

HFF Readout Mode	Slit	Subarray
false	S400A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Between Dates 19-NOV-2024:00:00:00 and 26-NOV-2024:00:00:00

Observation

Proposal 12570, Observation 4

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	EP250108a	RA: 03 42 28.3920 (55.6183000d) Dec: -22 30 21.27 (-22.50591d) Equinox: J2000		

Comments:
Category=Star
Description=[Gamma Ray bursters]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	19 EP250108a_acq_star	WATA	FULL	F110W	NRSRAPID	3	1	1	42.947	1

Template

HFF Readout Mode	Slit	Subarray
false	S400A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Before Date 02-FEB-2025:00:00:00

Observation

Proposal 12570, Observation 5

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(5)	GRB5	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	5 GRB5	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 6

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(6)	GRB6	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	6 GRB6	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 7

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(7)	GRB7	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	7 GRB7	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 8

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(8)	GRB8	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	8 GRB8	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 9

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(9)	GRB9	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	9 GRB9	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 10

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(10)	GRB10	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	10 GRB10	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 11

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(11)	GRB11	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	11 GRB11	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 12

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(12)	GRB12	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	12 GRB12	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 13

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(13)	GRB13	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	13 GRB13	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 14

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(14)	GRB14	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	14 GRB14	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days

Observation

Proposal 12570, Observation 15

Wed Mar 11 17:00:49 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec Fixed Slit Spectroscopy

Diagnostics

(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Generic Targets

#	Name	Criteria	Description
(15)	GRB15	GRB at z <~ 1	

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	15 GRB15	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	1

Template

HFF Readout Mode	Slit	Subarray
false	S200A1	FULL

Dithers

#	Primary Dither Positions	Sub-Pixel Pattern
1	3	SPATIAL

Spectral Elements

#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	S200A1	NRSIRS2RAPID	35	2	1	NONE	6	12	6302.4	177949

Special Requirements	Target Of Opportunity Response Time 14 Days