



5324 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Cycle: 3, Proposal Category: GO

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> |
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JWST Proposal 5324 (Created: Monday, April 13, 2026, 6:00:35PM Eastern Standard Time) - Overview

| <i>Name</i> | <i>Institution</i> |
|---|--|
| Dr. Patrick Kelly (CoI) | University of Minnesota - Twin Cities |
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| Varun Bajaj (CoI) | Space Telescope Science Institute |
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| Dr. Suhail Dhawan (CoI) (ESA Member) | University of Cambridge |
| Prof. Masao Sako (CoI) | University of Pennsylvania |
| Conor Larison (CoI) | Space Telescope Science Institute |
| Prof. Xiaosheng Huang (CoI) | University of San Francisco |
| Aadya Agrawal (CoI) | University of Illinois at Urbana - Champaign |
| Dr. Phillip Macias (CoI) | University of California - Santa Cruz |
| Dr. Kishore C. Patra (CoI) | University of California - Santa Cruz |
| Dr. David J. Schlegel (CoI) | Lawrence Berkeley National Laboratory |
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OBSERVATIONS

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|---------------|--------------------|--------------|----------------------------------|------------------------|
| NIRSpec | | | | |
| | 1 | NRS1 | NIRSpec Fixed Slit Spectroscopy | (12) SNIa_1 |
| | 4 | NRS2 | NIRSpec Fixed Slit Spectroscopy | (16) C3D_1 |
| | 7 | NRS3 | NIRSpec Fixed Slit Spectroscopy | (18) UDS-T11 |
| | 10 | twinkle_1st2 | NIRSpec MultiObject Spectroscopy | (32) final_cat_v5 |
| | 13 | NRS5 | NIRSpec Fixed Slit Spectroscopy | (26) A370-SNIa |
| | 16 | NRS6 | NIRSpec Fixed Slit Spectroscopy | (14) SNIa2 |
| | 19 | NRS7 | NIRSpec Fixed Slit Spectroscopy | (20) UDS-T29 |
| | 22 | NRS8 | NIRSpec Fixed Slit Spectroscopy | (8) HIGH-Z-3 |
| | 25 | P3V1 | NIRSpec MultiObject Spectroscopy | (27) MPT_input_5324_v4 |
| | 28 | twinkle_2nd9 | NIRSpec MultiObject Spectroscopy | (32) final_cat_v5 |
| NIRCam 1 | | | | |

JWST Proposal 5324 (Created: Monday, April 13, 2026, 6:00:35PM Eastern Standard Time) - Overview

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|-----------------|--------------------|--------------|---------------------------|------------------------|
| | 2 | NRC-1-1 | NIRCam Imaging | (12) SNIa_1 |
| | 5 | NRC-2-1 | NIRCam Imaging | (16) C3D_1 |
| | 8 | NRC-3-1 | NIRCam Imaging | (18) UDS-T11 |
| | 11 | NRC-4-1 | NIRCam Imaging | (1) twinkle-pointing1 |
| | 14 | NRC-5-1 | NIRCam Imaging | (26) A370-SNIa |
| | 17 | NRC-6-1 | NIRCam Imaging | (14) SNIa2 |
| | 20 | NRC-7-1 | NIRCam Imaging | (20) UDS-T29 |
| | 23 | NRC-8-1 | NIRCam Imaging | (8) HIGH-Z-3 |
| | 26 | NRC-9-1 | NIRCam Imaging | (22) JADES-SNIa |
| | 29 | NRC-10-1 | NIRCam Imaging | (28) twinkle-pointing2 |
| NIRCAM 2 | | | | |
| | 3 | NRC-1-2 | NIRCam Imaging | (12) SNIa_1 |
| | 6 | NRC-2-2 | NIRCam Imaging | (16) C3D_1 |
| | 9 | NRC-3-2 | NIRCam Imaging | (18) UDS-T11 |
| | 12 | NRC-4-2 | NIRCam Imaging | (1) twinkle-pointing1 |
| | 15 | NRC-5-2 | NIRCam Imaging | (26) A370-SNIa |
| | 18 | NRC-6-2 | NIRCam Imaging | (14) SNIa2 |
| | 21 | NRC-7-2 | NIRCam Imaging | (20) UDS-T29 |
| | 24 | NRC-8-2 | NIRCam Imaging | (8) HIGH-Z-3 |
| | 27 | NRC-9-2 | NIRCam Imaging | (22) JADES-SNIa |
| | 30 | NRC-10-2 | NIRCam Imaging | (28) twinkle-pointing2 |

ABSTRACT

Type Ia supernovae (SNe Ia) have been one of our most valuable cosmological probes for over 20 years, and are expected to make landmark dark energy measurements this decade. These next-generation SN Ia dark energy measurements, coming primarily from the Rubin Observatory and Roman Space Telescope, will rely upon SN Ia luminosities remaining constant with redshift to remain unbiased. Any evolution in luminosity distances would indicate variable dark energy, unless SN Ia intrinsic luminosities also vary with redshift. Beyond $z \sim 2.5$, any such behavior strongly indicates intrinsic SN Ia luminosity evolution, breaking the degeneracy with dark energy and giving high- z SNe Ia unique leverage on evolving systematics. Here we propose to efficiently build a sample of the first 10 spectroscopically-confirmed SNe Ia at $z > 2.5$ (with sensitivity to $z \sim 5$) using target of opportunity (ToO) observations. The program identifies any intrinsic SN Ia evolution at the $>10\%$ level, puts limits on any monotonic evolution at lower- z , and makes the first $z > 2.5$ SN Ia rate measurement, which is critical to understanding SN Ia progenitor systems. While Roman

is soon expected to observe thousands of SNe Ia, JWST will still be the only telescope capable of detecting SNe Ia beyond $z \sim 3-4$. This program therefore probes a region of parameter space beyond the capabilities of Roman, opening a brand new discovery space for one of our most mature and important cosmological probes. Only JWST can push this critical frontier for SN Ia cosmology.

OBSERVING DESCRIPTION

In order to accomplish our science goals, we must 1) spectroscopically classify the SNe as SNIa's. and 2) collect several epochs of imaging to construct a light curve. To do so, we request 10 non-disruptive ToO triggers. We split our triggers into our respective redshift bins.

1. NIRSpec:

We will collect NIRSpec Fixed Slit observations for each target as soon as possible. The given exposure times reach at least S/N 5 for the spectral range required to correctly classify as a SNIa (~ 6000 A rest frame). We opt for the PRISM/CLEAR grating for the most efficient exposures, while still achieving the necessary resolution. In order to optimize spectral and spatial sampling, we use 5 along-slit dithers in the s200a slit. This allows us to capture the full spectral range from the rest-frame UV to the near-IR with adequate resolution. Our targets will not reach the required S/N > 20 to ensure successful target acquisition using NIRSpec Wide Aperture Target Acquisition (WATA). We will select offset TA sources that meet the necessary S/N at minimum using the CLEAR filter, FULL subarray, and NRSRAPIDD6 readout pattern. This combination of parameters allows us to select sources down to 26.9 AB mag.

2. NIRCам:

We will collect 2 NIRCам imaging epoch in 4 filters in order to construct a light curve. We will use only module B and a subset of F115W, F150W, F200W, F277W, F356W, and F444W, whichever best model the peak of the SED and which correspond with the filters used in the discovery epoch. As an example, we simply use F150W,F200W,F277W,F444W here, removing F150W in the high-z epoch 2 case where it is expected to fade beyond detectability. Table 1 gives the required exposure times for both epochs for each redshift bin. Given the redshift regime we are targeting, SN evolution in the observer frame will be slow, and we can use non-disruptive ToO triggers to get our additional epochs. Epoch 2 imaging will use special requirements to ensure that it occurs at a cadence of between 7.5 and 12.5 rest-frame days after the first epoch. The first NIRCам epoch has been made non-interruptible with NIRSpec (they should happen in the same visit). This enables more precise phase estimation, improved absolute calibration for NIRSpec, and lower overheads. When ToO targets are generic, even if observations are non-interruptible overheads are calculated by Smart Accounting as though they are separate visits. By creating a mock example of our program with fixed targets, we find Observatory overheads should be reduced by 264s and slews by 1647s for each of 10 triggers, so a total reduction of 5.31 hours. We have set the custom allocation to therefore be 5.31 hours below the smart accounting value.

Proposal 5324 - Targets - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|-------------------|---|--------------------------|---------------|
| (1) | twinkle-pointing1 | RA: 12 36 34.6152 (189.1442300d) Dec: +62 15 28.95 (62.25804d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> | | | | |
| (12) | SNIa_1 | RA: 02 39 53.9281 (39.9747004d) Dec: -01 36 55.62 (-1.61545d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae]</i> | | | | |
| (13) | SNIa1_TA | RA: 02 39 54.0279 (39.9751162d) Dec: -01 36 25.70 (-1.60714d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[O stars]</i> <i>Extended=NO</i> | | | | |
| (14) | SNIa2 | RA: 12 36 50.1195 (189.2088313d) Dec: +62 10 23.68 (62.17324d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae, Type Ia supernovae]</i> | | | | |
| (15) | SNIa2_TA | RA: 12 36 52.4054 (189.2183558d) Dec: +62 09 59.48 (62.16652d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[O stars]</i> | | | | |
| (16) | C3D_1 | RA: 10 00 27.8402 (150.1160008d) Dec: +02 13 31.41 (2.22539d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> | | | | |
| (17) | C3D_1-TA | RA: 10 00 28.6592 (150.1194133d) Dec: +02 13 38.84 (2.22746d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> | | | | |
| (18) | UDS-T11 | RA: 02 17 13.8936 (34.3078900d) Dec: -05 08 51.65 (-5.14768d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae]</i> | | | | |

Fixed Targets

Proposal 5324 - Targets - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

| | | |
|--|-------------------|---|
| (19) | UDS-T11-TA | RA: 02 17 12.8484 (34.3035350d) Dec: -05 08 44.19 (-5.14561d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[O stars]</i></p> | | |
| (20) | UDS-T29 | RA: 02 17 31.4834 (34.3811808d) Dec: -05 05 32.97 (-5.09249d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | |
| (21) | UDS-T29-TA | RA: 02 17 32.9592 (34.3873300d) Dec: -05 05 31.12 (-5.09198d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[O stars]</i></p> | | |
| (22) | JADES-SNIa | RA: 03 32 40.3955 (53.1683146d) Dec: -27 47 1.24 (-27.78368d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> <i>Extended=NO</i></p> | | |
| (24) | JADES-SNIa-True | RA: 03 32 39.0294 (53.1626225d) Dec: -27 46 15.59 (-27.77100d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> <i>Extended=NO</i></p> | | |
| (25) | MPT_input_v2.1 | RA: 03 32 39.2477 (53.1635321d) Dec: -27 46 35.37 (-27.77649d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Description=[]</i></p> | | |
| (26) | A370-SNIa | RA: 02 39 54.7416 (39.9780900d) Dec: -01 37 39.18 (-1.62755d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> <i>Extended=NO</i></p> | | |
| (27) | MPT_input_5324_v4 | RA: 03 32 39.1488 (53.1631200d) Dec: -27 46 35.41 (-27.77650d) Equinox: J2000 |
| <p><i>Comments:</i> <i>Description=[]</i></p> | | |

Proposal 5324 - Targets - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

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|------------------------|---|-------------------|---|--------------------|
| | (28) | twinkle-pointing2 | RA: 12 36 48.8585 (189.2035771d) Dec: +62 12 20.78 (62.20577d) Equinox: J2000 | |
| | <i>Comments:</i> Category=Star Description=[Type Ia supernovae] | | | |
| | (32) | final_cat_v5 | RA: 12 36 41.5419 (189.1730912d) Dec: +62 13 54.88 (62.23191d) Equinox: J2000 | |
| | <i>Comments:</i> Description=[] | | | |
| Generic Targets | # | Name | Criteria | Description |
| | (2) | LOW-Z-2 | ToO trigger for high confidence detection of SNIa at $2.5 < z < 3.5$ | |
| | (3) | LOW-Z-3 | ToO trigger for high confidence detection of SNIa at $2.5 < z < 3.5$ | |
| | (4) | LOW-Z-4 | ToO trigger for high confidence detection of SNIa at $2.5 < z < 3.5$ | |
| | (5) | LOW-Z-5 | ToO trigger for high confidence detection of SNIa at $2.5 < z < 3.5$ | |
| | (6) | HIGH-Z-1 | ToO trigger for high confidence detection of SNIa at $z \geq 3$ | |
| | (7) | HIGH-Z-2 | ToO trigger for high confidence detection of SNIa at $z \geq 3$ | |
| | (8) | HIGH-Z-3 | ToO trigger for high confidence detection of SNIa at $z \geq 3$ | |
| | (9) | HIGH-Z-4 | ToO trigger for high confidence detection of SNIa at $z \geq 3$ | |
| | (10) | HIGH-Z-5 | ToO trigger for high confidence detection of SNIa at $z \geq 3$ | |
| | (11) | GENERICSOURCE | >20 SNR for WATA | |

Proposal 5324 - Observation 1 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | | |
|--|--|---------------------------------|--|------------------------|-------------------|---------------------------------|-------------------|--------------------------|---------------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 1: NRS1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p> | | | | | | | | | | |
| | <p>(NRS1 (Obs 1)) Warning (Form): The slew between the acquisition exposure and the farthest science exposure is 42.705 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.</p> <p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (12) | SN Ia_1 | RA: 02 39 53.9281 (39.9747004d) Dec: -01 36 55.62 (-1.61545d) Equinox: J2000 | | | | | | | | |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=/Supernovae/</i></p> | | | | | | | | | | | |
| Acquisition | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | 13 SN Ia1_TA | WATA | FULL | F110W | NRSRAPID | 3 | 1 | 1 | 42.947 | 145221 |
| Template | HFF Readout Mode | | | | Slit | | | Subarray | | | |
| | false | | | | S200A1 | | | FULL | | | |
| Dithers | # | Primary Dither Positions | | | | | | Sub-Pixel Pattern | | | |
| | 1 | 5 | | | | | | NONE | | | |
| Spectral Elements | # | Grating/Filter | Slit | Readout Pattern | Groups/Int | Integrations/Ex # | Autocal | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | PRISM/CLEAR | S200A1 | NRSIRS2 | 10 | 1 | 1 | NONE | 5 | 5 | 3720.167 |

Proposal 5324 - Observation 1 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

Aperture PA Range 28.84190369 to 48.84190369 Degrees (V3 250.0 to 270.0)
Target Of Opportunity Response Time 14 Days, Carry-Over
Group Observations 1, 2, Non-interruptible

Proposal 5324 - Observation 4 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

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|---|---|---------------------------------|--|------------------------|-------------------|---------------------------------|--------------------------|-------------------------|---------------------------|----------------------------|------------------------|
| Observation | Proposal 5324, Observation 4: NRS2 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy | | | | | | | | | | |
| | (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (16) | C3D_1 | RA: 10 00 27.8402 (150.1160008d) Dec: +02 13 31.41 (2.22539d) Equinox: J2000 | | | | | | | | |
| <i>Comments: Category=Star Description=[Type Ia supernovae]</i> | | | | | | | | | | | |
| Acquisition | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | 17 C3D_1-TA | WATA | FULL | CLEAR | NRSRAPIDD6 | 3 | 1 | 1 | 171.788 | 145221 |
| Template | HFF Readout Mode | | | | Slit | | | Subarray | | | |
| | false | | | | S200A1 | | | FULL | | | |
| Dithers | # | Primary Dither Positions | | | | | Sub-Pixel Pattern | | | | |
| | 1 | 5 | | | | | NONE | | | | |
| Spectral Elements | # | Grating/Filter | Slit | Readout Pattern | Groups/Int | Integrations/Ex # | Autocal | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | PRISM/CLEAR | S200A1 | NRSIRS2 | 11 | 1 | 1 | NONE | 5 | 5 | 4084.889 |

Proposal 5324 - Observation 4 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

Target Of Opportunity Response Time 14 Days, Carry-Over

Group Observations 4, 5, Non-interruptible

Proposal 5324 - Observation 7 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|--|---|--------------------------|--|-----------------|--------------------------|--------------------|-------------------|------------------|--------------------|---------------------|-----------------|
| Observation | Proposal 5324, Observation 7: NRS3 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy | | | | | | | | | | |
| | (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (18) | UDS-T11 | RA: 02 17 13.8936 (34.3078900d) Dec: -05 08 51.65 (-5.14768d) Equinox: J2000 | | | | | | | | |
| Comments: Category=Star Description=[Supernovae] | | | | | | | | | | | |
| Acquisition | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | 19 UDS-T11-TA | WATA | SUB2048 | CLEAR | NRSRAPIDD6 | 3 | 1 | 1 | 14.452 | 145221 |
| Template | HFF Readout Mode | | | | Slit | | | Subarray | | | |
| | false | | | | S200A1 | | | FULL | | | |
| Dithers | # | Primary Dither Positions | | | | | Sub-Pixel Pattern | | | | |
| | 1 | 5 | | | | | NONE | | | | |
| 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 | NRSIRS2 | 13 | 1 1 | NONE | 5 | 5 | 4814.334 | 145221 |

Proposal 5324 - Observation 7 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

Before Date 11-SEP-2025:00:00:00

Group Observations 7, 8, Non-interruptible

Proposal 5324 - Observation 10 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | | |
|--------------------------|---|--|---|-------------------|---|-----------------------------|------------------------------|------------------------------------|--------------------|---------------------|---------------------|
| Observation | Proposal 5324, Observation 10: twinkle_1st2 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy | | | | | | | | | | |
| | (Visit 10:1) Warning (Form): Data Excess over lower threshold (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (32) | final_cat_v5 | RA: 12 36 41.5419 (189.1730912d) Dec: +62 13 54.88 (62.23191d) Equinox: J2000 | | | Comments: Description=[] | | | | | |
| Acquisition | # | Reference Star Bin | Target | Filter | MSA Configuration | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 3 quads; [Optimal TA Accuracy] | SAME | CLEAR | Auto Acq MSA Config | NRSRAPIDD6 | 3 | 1 | 4 | 687.153 | |
| Template | TA Method | HFF Readout Mode | Obtain Confirmation Images | Science Aperture | Primary Candidate List | Filler Candidate List | Spectral Overlap Map | Spectral Overlap Threshold | | | |
| | MSATA | false | No | MSA Center | Primary (7 sources) | Filler (3555 sources) | jwst-nirspec-prism | 1.5 | | | |
| Reference Stars | Visit | ID | RA | Dec | Magnitude | Visit | ID | RA | Dec | Magnitude | |
| | 1 | 2878 | 189.125660 | 62.232861 | 25.04 | 1 | 11794 | 189.099628 | 62.263572 | 24.73 | |
| | 1 | 5554 | 189.148047 | 62.241989 | 24.62 | 1 | 14414 | 189.148104 | 62.273542 | 25.14 | |
| | 1 | 10117 | 189.067133 | 62.256428 | 25.16 | 1 | 15164 | 189.148316 | 62.275844 | 25.25 | |
| | 1 | 11741 | 189.096366 | 62.263356 | 25.27 | 1 | 29759 | 189.066396 | 62.264844 | 24.93 | |
| Spectral Elements | # | Exposure Specification | MSA Configuration | Nod Pattern | Pointing | Aperture PA | Dispersion Offset (Shutters) | Cross-Dispersion Offset (Shutters) | Total Dithers | Total Integrations | Total Exposure Time |
| | 1 | 1 (PRISM/CLEAR) | c1 | 3 Shutter Slitlet | 189.11302904166 666 Degrees 62.248749444444 44 Degrees | 270.38985114286 73 | | | 3 | 9 | 13261.301 |

Proposal 5324 - Observation 10 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

MSA Scheduled Aperture PA 270.4430 to 270.4430 Degrees (V3 131.86842 to 131.86842)

Group Observations 10, 12, Non-interruptible

Proposal 5324 - Observation 13 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | | |
|--|--|---------------------------------|--|------------------------|-------------------|---------------------------------|-------------------|--------------------------|---------------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 13: NRS5</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p> | | | | | | | | | | |
| | <p>(NRS5 (Obs 13)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (26) | A370-SNIa | RA: 02 39 54.7416 (39.9780900d) Dec: -01 37 39.18 (-1.62755d) Equinox: J2000 | | | | | | | | |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> <i>Extended=NO</i></p> | | | | | | | | | | | |
| Acquisition | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | SAME | WATA | FULL | F140X | NRSRAPIDD6 | 3 | 1 | 1 | 171.788 | |
| Template | HFF Readout Mode | | | | Slit | | | Subarray | | | |
| | false | | | | S200A1 | | | FULL | | | |
| Dithers | # | Primary Dither Positions | | | | | | Sub-Pixel Pattern | | | |
| | 1 | 5 | | | | | | NONE | | | |
| Spectral Elements | # | Grating/Filter | Slit | Readout Pattern | Groups/Int | Integrations/Ex # | Autocal | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | PRISM/CLEAR | S200A1 | NRSIRS2 | 12 | 1 | 1 | NONE | 5 | 5 | 4449.611 |

Proposal 5324 - Observation 13 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

Before Date 02-FEB-2026:00:00:00
Target Of Opportunity Response Time 14 Days, Carry-Over
Group Observations 13, 14, Non-interruptible

Proposal 5324 - Observation 16 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | | |
|---|--|---------------------------------|---|------------------------|-------------------|---------------------------------|-------------------|--------------------------|---------------------------|----------------------------|------------------------|
| Observation | Proposal 5324, Observation 16: NRS6 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy | | | | | | | | | | |
| | (Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (14) | SNIa2 | RA: 12 36 50.1195 (189.2088313d) Dec: +62 10 23.68 (62.17324d) Equinox: J2000 | | | | | | | | |
| <i>Comments:</i> Category=Star Description=[Supernovae, Type Ia supernovae] | | | | | | | | | | | |
| Acquisition | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | 15 SNIa2_TA | WATA | FULL | F110W | NRSRAPIDD6 | 3 | 1 | 1 | 171.788 | 145221 |
| Template | HFF Readout Mode | | | | Slit | | | Subarray | | | |
| | false | | | | S200A1 | | | FULL | | | |
| Dithers | # | Primary Dither Positions | | | | | | Sub-Pixel Pattern | | | |
| | 1 | 5 | | | | | | NONE | | | |
| Spectral Elements | # | Grating/Filter | Slit | Readout Pattern | Groups/Int | Integrations/Ex # | Autocal | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | PRISM/CLEAR | S200A1 | NRSIRS2 | 10 | 3 | 1 | NONE | 5 | 15 | 11160.501 |

Proposal 5324 - Observation 16 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

Aperture PA Range 303.84190369 to 328.84190369 Degrees (V3 165.0 to 190.0)
Target Of Opportunity Response Time 14 Days, Carry-Over
Group Observations 16, 17, Non-interruptible

Proposal 5324 - Observation 19 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|--|--|--------------------------|--|-----------------|-------------|--------------------------|-------------------|------------------|--------------------|---------------------|-----------------|
| Observation | Proposal 5324, Observation 19: NRS7 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy | | | | | | | | | | |
| | (Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (20) | UDS-T29 | RA: 02 17 31.4834 (34.3811808d) Dec: -05 05 32.97 (-5.09249d) Equinox: J2000 | | | | | | | | |
| Comments: Category=Star Description=[Type Ia supernovae] | | | | | | | | | | | |
| Acquisition | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | 21 UDS-T29-TA | WATA | FULL | F110W | NRSRAPID | 3 | 1 | 1 | 42.947 | 145221 |
| Template | HFF Readout Mode | | | | Slit | | | Subarray | | | |
| | false | | | | S200A1 | | | FULL | | | |
| Dithers | # | Primary Dither Positions | | | | | Sub-Pixel Pattern | | | | |
| | 1 | 5 | | | | | NONE | | | | |
| Spectral Elements | # | Grating/Filter | Slit | Readout Pattern | Groups/Int | Integrations/Ex # | Autocal | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | PRISM/CLEAR | S200A1 | NRSIRS2 | 11 | 3 1 | NONE | 5 | 15 | 12254.668 | 145221 |

Proposal 5324 - Observation 19 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

Before Date 11-SEP-2025:00:00:00

Group Observations 19, 20, Non-interruptible

Proposal 5324 - Observation 22 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|--------------------------|---|---------------------------------|---|-----------------|-------------|--------------------------|-----------------|------------------|--------------------|---------------------|---------------------|-----------------|
| Observation | Proposal 5324, Observation 22: NRS8 Diagnostic Status: Warning Observing Template: NIRSspec Fixed Slit Spectroscopy | | | | | | | | | | | |
| Diagnostics | (Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | |
| Generic Targets | # | Name | Criteria | | Description | | | | | | | |
| | (8) | HIGH-Z-3 | ToO trigger for high confidence detection of SNIa at z>=3 | | | | | | | | | |
| Acquisition | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | |
| | 1 | 11 GENERIC TASO URCE | WATA | FULL | CLEAR | NRSRAPIDD6 | 3 | 1 | 1 | 171.788 | 145221 | |
| Template | HFF Readout Mode | | | Slit | | | Subarray | | | | | |
| | false | | | S200A1 | | | FULL | | | | | |
| Dithers | # | Primary Dither Positions | | | | Sub-Pixel Pattern | | | | | | |
| | 1 | 5 | | | | NONE | | | | | | |
| 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 | NRSIRS2 | 10 | 1 | 1 | NONE | 5 | 5 | 3720.167 | 145221 |

Proposal 5324 - Observation 22 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

On Hold On hold for $z>3$ SNIa
Target Of Opportunity Response Time 14 Days, Carry-Over
Group Observations 22, 23, Non-interruptible

Proposal 5324 - Observation 25 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | | |
|------------------------------------|--|--|---|-------------------------|---|---------------------------------|-------------------------------------|---|---------------------------|----------------------------|----------------------------|
| Observation | Proposal 5324, Observation 25: P3V1 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy | | | | | | | | | | |
| | (P3V1 (Obs 25)) Warning (Form): Config c1 (#1) has 1 filler slit traces affected by failed open shutters. (P3V1 (Obs 25)) Warning (Form): Config c1 (#2) has 1 filler slit traces affected by failed open shutters. (Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (27) | MPT_input_5324_v4 | RA: 03 32 39.1488 (53.1631200d) Dec: -27 46 35.41 (-27.77650d) Equinox: J2000 | | | | | | | | |
| <i>Comments:</i> Description=[] | | | | | | | | | | | |
| Acquisition | # | Reference Star Bin | Target | Filter | MSA Configuration | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy] | SAME | CLEAR | Auto Acq MSA Config | NRSRAPIDD6 | 3 | 1 | 4 | 687.153 | |
| Template | TA Method | HFF Readout Mode | Obtain Confirmation Images | Science Aperture | Primary Candidate List | Filler Candidate List | Spectral Overlap Map | Spectral Overlap Threshold | | | |
| | MSATA | false | No | MSA Center | Primary (96 sources) | Fillers (13654 sources) | jwst-nirspec-prism | 1.5 | | | |
| Reference Stars | Visit | ID | RA | Dec | Magnitude | Visit | ID | RA | Dec | Magnitude | |
| | 1 | 109948 | 53.120785 | -27.803394 | 25.16 | 1 | 197052 | 53.158413 | -27.819086 | 24.17 | |
| | 1 | 125818 | 53.176346 | -27.780935 | 25.42 | 1 | 200589 | 53.129050 | -27.806437 | 25.55 | |
| | 1 | 141936 | 53.154278 | -27.761415 | 25.19 | 1 | 201632 | 53.135513 | -27.802640 | 25.22 | |
| | 1 | 145445 | 53.138150 | -27.756407 | 24.16 | 1 | 206795 | 53.162365 | -27.784513 | 25.38 | |
| Spectral Elements | # | Exposure Specification | MSA Configuration | Nod Pattern | Pointing | Aperture PA | Dispersion Offset (Shutters) | Cross-Dispersion Offset (Shutters) | Total Dithers | Total Integrations | Total Exposure Time |
| | 1 | 1 (PRISM/CLEAR) | c1 | 3 Shutter Slitlet | 53.153389583333 210.73845415716 336 Degrees - 27.789338888888 892 Degrees | 727 | | | 3 | 6 | 5339.534 |
| | 2 | 1 (PRISM/CLEAR) | c1 | 3 Shutter Slitlet | 53.153389583333 210.73845415716 336 Degrees - 27.789338888888 892 Degrees | 727 | | | 3 | 6 | 5339.534 |

Proposal 5324 - Observation 25 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

Target Of Opportunity Response Time 14 Days, Carry-Over
MSA Scheduled Aperture PA 210.7339 to 210.7339 Degrees (V3 72.15933 to 72.15933)

Group Observations 25, 27, Non-interruptible

Proposal 5324 - Observation 28 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | | |
|------------------------------------|---|--|---|-------------------------|--|---------------------------------|-------------------------------------|---|---------------------------|----------------------------|----------------------------|
| Observation | Proposal 5324, Observation 28: twinkle_2nd9 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy | | | | | | | | | | |
| | (Visit 28:1) Warning (Form): Data Excess over lower threshold (Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 28:1) Warning (Form): The recommended value is 8 Reference Stars for this template. | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (32) | final_cat_v5 | RA: 12 36 41.5419 (189.1730912d) Dec: +62 13 54.88 (62.23191d) Equinox: J2000 | | | | | | | | |
| <i>Comments:</i> Description=[] | | | | | | | | | | | |
| Acquisition | # | Reference Star Bin | Target | Filter | MSA Configuration | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID |
| | 1 | Filter: F110W; Readout: NRSRAPIDD6; 5 sources in 2 quads; [Optimal TA Accuracy] | SAME | F110W | Auto Acq MSA Config | NRSRAPIDD6 | 3 | 1 | 4 | 687.153 | |
| Template | TA Method | HFF Readout Mode | Obtain Confirmation Images | Science Aperture | Primary Candidate List | Filler Candidate List | Spectral Overlap Map | Spectral Overlap Threshold | | | |
| | MSATA | false | No | MSA Center | Primary (7 sources) | Filler (3555 sources) | jwst-nirspec-prism | 1.5 | | | |
| Reference Stars | Visit | ID | RA | Dec | Magnitude | Visit | ID | RA | Dec | Magnitude | |
| | 1 | 72 | 189.139752 | 62.214528 | 23.51922687251987 | 1 | 57038 | 189.256398 | 62.203147 | 23.89559621792398 | |
| | 1 | 26254 | 189.159270 | 62.214460 | 23.41481259133378 | 1 | 57200 | 189.230680 | 62.203700 | 23.44130189055957 | |
| | 1 | 31446 | 189.223798 | 62.188229 | 22.6324814057122 | | | | | 6 | |
| Spectral Elements | # | Exposure Specification | MSA Configuration | Nod Pattern | Pointing | Aperture PA | Dispersion Offset (Shutters) | Cross-Dispersion Offset (Shutters) | Total Dithers | Total Integrations | Total Exposure Time |
| | 1 | 1 (PRISM/CLEAR) | c1 | 3 Shutter Slitlet | 189.19964254166 270.48509170437 666 Degrees 62.2086125 Degrees | 933 | | | 3 | 9 | 13261.301 |

Proposal 5324 - Observation 28 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Special Requirements

MSA Scheduled Aperture PA 270.4616 to 270.4616 Degrees (V3 131.88701 to 131.88701)

Group Observations 28, 30, Non-interruptible

Proposal 5324 - Observation 2 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|--|----------------------------|---------------------------------|------------------------|---------------------------------|------------------------------------|---------------------------|---------------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 2: NRC-1-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(NRC-1-1 (Obs 2)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (12) | SN1a_1 | RA: 02 39 53.9281 (39.9747004d) | | | | | | | |
| | | | Dec: -01 36 55.62 (-1.61545d) | | | | | | | |
| | | | Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae]</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULE | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F150W | F277W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | 145221 |
| | 2 | F200W | F356W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| Special Requirements | <p>Aperture PA Range 249.92542306 to 269.92542306 Degrees (V3 250.0 to 270.0)</p> <p>Offset 60.0 arcsec, 30.0 arcsec</p> <p>3 After 2 by 30 Days to 110 Days</p> <p>Group Observations 1, 2, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 5 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|---|----------------------------|--|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 5: NRC-2-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (16) | C3D_1 | RA: 10 00 27.8402 (150.1160008d) Dec: +02 13 31.41 (2.22539d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEX | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F356W | BRIGHT2 | 7 | 1 | 4 | 4 | 601.259 | 145221 |
| | 2 | F150W | F277W | BRIGHT2 | 7 | 1 | 4 | 4 | 601.259 | 145221 |
| | 3 | F115W | F444W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | 145221 |
| Special Requirements | <p>Before Date 16-MAY-2025:00:00:00 Offset 23.0 arcsec, 37.0 arcsec</p> <p>6 After 5 by 12 Days to 20 Days Group Observations 4, 5, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 8 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|---|----------------------------|--|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 8: NRC-3-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (18) | UDS-T11 | RA: 02 17 13.8936 (34.3078900d) Dec: -05 08 51.65 (-5.14768d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEX | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F150W | F356W | BRIGHT2 | 8 | 1 | 4 | 4 | 687.153 | 145221 |
| | 2 | F200W | F277W | BRIGHT2 | 8 | 1 | 4 | 4 | 687.153 | 145221 |
| Special Requirements | <p>Before Date 12-SEP-2025:00:00:00 Offset 35.0 arcsec, 35.0 arcsec</p> <p>9 After 8 by 60 Days to 95 Days Group Observations 7, 8, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 11 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|---|----------------------------|---|------------------------|---------------------------------|------------------------------------|---------------------------|----------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 11: NRC-4-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(NRC-4-1 (Obs 11)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 11:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (1) | twinkle-pointing1 | RA: 12 36 34.6152 (189.1442300d) Dec: +62 15 28.95 (62.25804d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=/Type Ia supernovae/</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F115W | F444W | BRIGHT2 | 6 | 2 | 8 | 4 | 1073.677 | 145221 |
| | 2 | F150W | F356W | BRIGHT1 | 6 | 2 | 8 | 4 | 987.783 | 145221 |
| | 3 | F200W | F277W | BRIGHT1 | 6 | 2 | 8 | 4 | 987.783 | |
| Special Requirements | <p>Before Date 17-APR-2026:00:00:00</p> | | | | | | | | | |

Proposal 5324 - Observation 14 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|--|----------------------------|---------------------------------|------------------------|-------------------|---|---------------------------|----------------------|----------------------------|---------------------------|
| Observation | <p>Proposal 5324, Observation 14: NRC-5-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(Visit 14:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | Miscellaneous | | |
| | (26) | A370-SNIa | RA: 02 39 54.7416 (39.9780900d) | | | | | | | |
| | | | Dec: -01 37 39.18 (-1.62755d) | | | | | | | |
| | | | Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Type Ia supernovae]</i></p> <p><i>Extended=NO</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module A center (small extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | | Subpixel Positions |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | | 4 |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F115W | F444W | BRIGHT2 | 10 | 1 | 4 | 4 | 858.942 | 145221 |
| | 2 | F150W | F356W | BRIGHT2 | 10 | 1 | 4 | 4 | 858.942 | 145221 |
| | 3 | F200W | F277W | BRIGHT2 | 10 | 1 | 4 | 4 | 858.942 | 145221 |
| Special Requirements | <p>Offset 40.0 arcsec, -40.0 arcsec</p> <p>Fiducial Point Override NRCAS_FULL</p> <p>Group Observations 13, 14, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 17 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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| Observation | <p>Proposal 5324, Observation 17: NRC-6-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (14) | SNIa2 | RA: 12 36 50.1195 (189.2088313d) Dec: +62 10 23.68 (62.17324d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae, Type Ia supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEX | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | BRIGHT2 | 7 | 1 | 4 | 4 | 601.259 | 145221 |
| | 2 | F150W | F444W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| Special Requirements | <p>Offset 45.0 arcsec, 35.0 arcsec</p> <p>18 After 17 by 35 Days to 60 Days</p> <p>Group Observations 16, 17, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 20 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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| Observation | <p>Proposal 5324, Observation 20: NRC-7-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (20) | UDS-T29 | RA: 02 17 31.4834 (34.3811808d) Dec: -05 05 32.97 (-5.09249d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEX | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | 145221 |
| | 2 | F150W | F356W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| Special Requirements | <p>Offset 35.0 arcsec, 35.0 arcsec</p> <p>21 After 20 by 60 Days to 95 Days</p> <p>Group Observations 19, 20, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 23 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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| Observation | <p>Proposal 5324, Observation 23: NRC-8-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Generic Targets | # | Name | Criteria | Description | | | | | | |
| | (8) | HIGH-Z-3 | ToO trigger for high confidence detection of SNIa at $z \geq 3$ | | | | | | | |
| Template | Module | | | | | Subarray | | | | |
| | B | | | | | FULL | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | BRIGHT2 | 7 | 1 | 4 | 4 | 601.259 | 145221 |
| | 2 | F150W | F444W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| Special Requirements | <p>On Hold On hold for $3.5 < z < 4.5$ SNIa</p> <p>24 After 23 by 37 Days to 62 Days</p> <p>Group Observations 22, 23, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 26 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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| Observation | <p>Proposal 5324, Observation 26: NRC-9-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(NRC-9-1 (Obs 26)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (22) | JADES-SNIa | RA: 03 32 40.3955 (53.1683146d) Dec: -27 47 1.24 (-27.78368d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> <i>Extended=NO</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| | 2 | F150W | F356W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| Special Requirements | <p>Before Date 12-DEC-2025:00:00:00</p> | | | | | | | | | |

Proposal 5324 - Observation 29 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|---|----------------------------|---|------------------------|---------------------------------|------------------------------------|---------------------------|----------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 29: NRC-10-1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(NRC-10-1 (Obs 29)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (28) | twinkle-pointing2 | RA: 12 36 48.8585 (189.2035771d) Dec: +62 12 20.78 (62.20577d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F115W | F444W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| | 2 | F150W | F356W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| | 3 | F200W | F277W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | |
| Special Requirements | <p>Before Date 17-APR-2026:00:00:00</p> | | | | | | | | | |

Proposal 5324 - Observation 3 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|--|----------------------------|---------------------------------|------------------------|---------------------------------|------------------------------------|---------------------------|---------------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 3: NRC-1-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(NRC-1-2 (Obs 3)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (12) | SN1a_1 | RA: 02 39 53.9281 (39.9747004d) | | | | | | | |
| | | | Dec: -01 36 55.62 (-1.61545d) | | | | | | | |
| | | | Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae]</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULE | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| | 2 | F150W | F356W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| Special Requirements | <p>Aperture PA Range 51.92542306 to 74.92542306 Degrees (V3 52.0 to 75.0)</p> <p>Offset -65.0 arcsec, -40.0 arcsec</p> <p>3 After 2 by 30 Days to 110 Days</p> | | | | | | | | | |

Proposal 5324 - Observation 6 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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| Observation | <p>Proposal 5324, Observation 6: NRC-2-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (16) | C3D_1 | RA: 10 00 27.8402 (150.1160008d) Dec: +02 13 31.41 (2.22539d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEX | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F356W | BRIGHT2 | 10 | 1 | 4 | 4 | 858.942 | 145221 |
| | 2 | F150W | F277W | BRIGHT2 | 10 | 1 | 4 | 4 | 858.942 | 145221 |
| | 3 | F115W | F444W | BRIGHT2 | 10 | 1 | 4 | 4 | 858.942 | 145221 |
| Special Requirements | <p>Offset 23.0 arcsec, 37.0 arcsec</p> <p>6 After 5 by 12 Days to 20 Days</p> | | | | | | | | | |

Proposal 5324 - Observation 9 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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| Observation | <p>Proposal 5324, Observation 9: NRC-3-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (18) | UDS-T11 | RA: 02 17 13.8936 (34.3078900d) Dec: -05 08 51.65 (-5.14768d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F150W | F356W | SHALLOW2 | 8 | 1 | 4 | 4 | 1589.042 | 145221 |
| | 2 | F200W | F277W | SHALLOW2 | 8 | 1 | 4 | 4 | 1589.042 | 145221 |
| Special Requirements | <p>Offset 35.0 arcsec, 35.0 arcsec</p> <p>9 After 8 by 60 Days to 95 Days</p> | | | | | | | | | |

Proposal 5324 - Observation 12 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|--|--|----------------------------|---|------------------------|---------------------------------|------------------------------------|---------------------------|----------------------|----------------------------|---------------------------|
| Observation | <p>Proposal 5324, Observation 12: NRC-4-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| | <p>(NRC-4-2 (Obs 12)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Diagnosics | | | | | | | | | | |
| | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (1) | twinkle-pointing1 | RA: 12 36 34.6152 (189.1442300d) Dec: +62 15 28.95 (62.25804d) Equinox: J2000 | | | | | | | |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | | Subpixel Positions |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | | 4 |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F115W | F444W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| | 2 | F150W | F356W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| | 3 | F200W | F277W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | |
| Special Requirements | <p>Before Date 01-JUN-2026:00:00:00</p> <p>Group Observations 10, 12, Non-interruptible</p> | | | | | | | | | |
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Proposal 5324 - Observation 15 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|--|----------------------------|---------------------------------|------------------------|---------------------------------|------------------------------|---------------------------|----------------------|----------------------------|---------------------------|
| Observation | <p>Proposal 5324, Observation 15: NRC-5-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(NRC-5-2 (Obs 15)) Warning (Form): Some science pointings place the target outside of the aperture.</p> <p>(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (26) | A370-SNIa | RA: 02 39 54.7416 (39.9780900d) | | Dec: -01 37 39.18 (-1.62755d) | | | Equinox: J2000 | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> <i>Extended=NO</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Detector B1 (compact source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | | Subpixel Positions |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | | 4 |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| | 2 | F150W | F356W | SHALLOW4 | 6 | 1 | 4 | 4 | 1245.465 | 145221 |
| | 3 | F115W | F444W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| Special Requirements | <p>Between Dates 01-JUN-2026:00:00:00 and 15-AUG-2026:00:00:00</p> <p>Offset -70.0 arcsec, 10.0 arcsec</p> <p>Fiducial Point Override NRCB1_FULL</p> | | | | | | | | | |

Proposal 5324 - Observation 18 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|---|----------------------------|---|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 18: NRC-6-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (14) | SNIa2 | RA: 12 36 50.1195 (189.2088313d) Dec: +62 10 23.68 (62.17324d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Supernovae, Type Ia supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEX | | 4 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | SHALLOW4 | 4 | 1 | 4 | 4 | 815.995 | 145221 |
| | 2 | F150W | F444W | SHALLOW4 | 10 | 1 | 4 | 4 | 2104.407 | 145221 |
| Special Requirements | <p>Offset 45.0 arcsec, 35.0 arcsec</p> <p>18 After 17 by 35 Days to 60 Days</p> | | | | | | | | | |

Proposal 5324 - Observation 21 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|--|----------------------------|--|------------------------|---------------------------------|-----------------------------|---------------------------|----------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 21: NRC-7-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (20) | UDS-T29 | RA: 02 17 31.4834 (34.3811808d) Dec: -05 05 32.97 (-5.09249d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | | | | | | | | |
| Template | Module | | | | Subarray | | | | | |
| | B | | | | FULL | | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F150W | F277W | SHALLOW2 | 8 | 1 | 4 | 4 | 1589.042 | 145221 |
| | 2 | F200W | F356W | SHALLOW2 | 8 | 1 | 4 | 4 | 1589.042 | 145221 |
| Special Requirements | <p>Offset 35.0 arcsec, 35.0 arcsec</p> <p>21 After 20 by 60 Days to 95 Days</p> | | | | | | | | | |

Proposal 5324 - Observation 24 - Do Pass $z=2$, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

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|-----------------------------|---|----------------------------|---|------------------------|-------------------|-----------------------------|---------------------------|----------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 24: NRC-8-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Generic Targets | # | Name | Criteria | Description | | | | | | |
| | (8) | HIGH-Z-3 | ToO trigger for high confidence detection of SNIa at $z \geq 3$ | | | | | | | |
| Template | Module | | | | | Subarray | | | | |
| | B | | | | | FULL | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F200W | F277W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| | 2 | F200W | F444W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| Special Requirements | <p>On Hold SNIa $z > 3$</p> <p>24 After 23 by 37 Days to 62 Days</p> | | | | | | | | | |

Proposal 5324 - Observation 27 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | |
|-----------------------------|--|----------------------------|--|------------------------|---------------------------------|------------------------------------|---------------------------|----------------------|----------------------------|---------------------------|
| Observation | <p>Proposal 5324, Observation 27: NRC-9-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(NRC-9-2 (Obs 27)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (22) | JADES-SNIa | RA: 03 32 40.3955 (53.1683146d) Dec: -27 47 1.24 (-27.78368d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i> <i>Extended=NO</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | | Subpixel Positions |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | | 4 |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F150W | F277W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| | 2 | F200W | F356W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| Special Requirements | <p>Aperture PA Range 70.92542306 to 74.92542306 Degrees (V3 71.0 to 75.0) Offset -22.0 arcsec, 30.0 arcsec</p> <p>Group Observations 25, 27, Non-interruptible</p> | | | | | | | | | |

Proposal 5324 - Observation 30 - Do Pass z=2, Do Collect Type Ia Supernovae: Breaking Out of Redshift Jail with JWST

Mon Apr 13 23:00:35 GMT 2026

| | | | | | | | | | | |
|--|---|----------------------------|---|------------------------|---------------------------------|------------------------------------|---------------------------|----------------------|----------------------------|------------------------|
| Observation | <p>Proposal 5324, Observation 30: NRC-10-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p> | | | | | | | | | |
| | <p>(NRC-10-2 (Obs 30)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | |
| Diagnosics | | | | | | | | | | |
| | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (28) | twinkle-pointing2 | RA: 12 36 48.8585 (189.2035771d) Dec: +62 12 20.78 (62.20577d) Equinox: J2000 | | | | | | | |
| <p><i>Comments:</i> <i>Category=Star</i> <i>Description=[Type Ia supernovae]</i></p> | | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module gap (large extended source) | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | | Subpixel Dither Type | | Dither Size | Subpixel Positions | |
| | 1 | NONE | | | | SMALL-GRID-DITHER | | | 4 | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | Optional ETC ID |
| | 1 | F115W | F444W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| | 2 | F150W | F356W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | 145221 |
| | 3 | F200W | F277W | SHALLOW4 | 7 | 1 | 4 | 4 | 1460.201 | |
| Special Requirements | <p>Before Date 01-JUN-2026:00:00:00</p> <p>Group Observations 28, 30, Non-interruptible</p> | | | | | | | | | |
| | | | | | | | | | | |