



8512 - Dissecting Coalescence of Primeval Galaxies

Cycle: 4, Proposal Category: GO

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> |
|---|--|
| Dr. Daichi Kashino (PI) | National Astronomical Observatory of Japan (NAOJ) |
| Dr. Rongmon Bordoloi (CoI) (US Admin CoI) | North Carolina State University |
| Dr. Jorryt Matthee (CoI) (ESA Member) | Institute of Science and Technology Austria |
| Prof. Anna-Christina Eilers (CoI) | Massachusetts Institute of Technology |
| Dr. Ruari Mackenzie (CoI) (ESA Member) | Ecole Polytechnique Federale de Lausanne |
| Prof. Robert Andrew Simcoe (CoI) | Massachusetts Institute of Technology |
| Dr. Minghao Yue (CoI) | Massachusetts Institute of Technology |
| Dr. Rohan Naidu (CoI) | Massachusetts Institute of Technology |

OBSERVATIONS

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|--------------------|--------------------|---------------|---------------------------|--------------------------|
| Observation Folder | | | | |
| | 1 | J0148-14610 | NIRSpec IFU Spectroscopy | (1) J0148-14610 |
| | 2 | J0148-10916AB | NIRSpec IFU Spectroscopy | (4) Group J0148-10916AB |
| | 3 | J0148-18151 | NIRSpec IFU Spectroscopy | (5) J0148-18151 |
| | 4 | J0148-14360 | NIRSpec IFU Spectroscopy | (6) J0148-14360 |
| | 5 | J1148-04376 | NIRSpec IFU Spectroscopy | (7) J1148-04376 |
| | 6 | J1148-13485 | NIRSpec IFU Spectroscopy | (8) J1148-13485 |
| | 7 | J0100-09273 | NIRSpec IFU Spectroscopy | (12) Group J0100-09273AB |
| | 8 | J0100-12754 | NIRSpec IFU Spectroscopy | (11) J0100-12754 |

ABSTRACT

How does the formation of primeval galaxies proceed in their earliest evolutionary stages? To answer this question, we propose NIRSpec IFU observations of eight selected galaxies at $z \sim 6$ which are composed of many distinct clumps. These galaxies have been carefully selected from >900 spectroscopically confirmed [OIII]5008 emission-line galaxies constructed by the JWST GTO EIGER program, one of the most sensitive NIRCам WFSS campaigns. Each of these galaxies has robust spectroscopic redshift confirmation and deep multiband NIRCам imaging (F115W, F200W, and F356W), making them an ideal sample for our science goals.

Utilizing the G395H/F290LP disperser-filter combination, we aim to obtain spatially-resolved maps of rest-frame optical emission lines, especially Hbeta, [OIII]4960,5008, Halpha, and [NII]. A central goal is to investigate the peculiar velocity of each clump and determine the dynamical properties of these systems. Specifically, we will verify whether these clumps are gravitationally bound, i.e., whether they are in the process of accreting into a single object. Further, we will map star formation activity using the Halpha emission line, verify the presence of outflows from emission-line profiles, and assess the recently reported nitrogen enhancement using the [NII] emission line as one of our pivotal tasks. These analyses will provide new insights into the very early stages of galaxy formation and evolution.

OBSERVING DESCRIPTION

We propose to obtain NIRSpec IFU observations for eight galaxies, each composed of many clumps, selected from the JWST GTO EIGER program. Our objective is to obtain spatially-resolved maps of rest-frame optical strong emission lines, namely Hbeta, [OIII], Halpha, and [NII], using the G395H/F290LP disperser-filter combination.

Based on estimates from the ETC, we will execute exposures with the NRSIRS2RAPID readout pattern with $N_{\text{group}}=99$, $N_{\text{integration}}=1$, and a 4-Point dither pattern. The total integration time is 5835 seconds per target.

For two targets that extend beyond 3", we will employ two offset pointings grouped together.

Proposal 8512 - Targets - Dissecting Coalescence of Primeval Galaxies

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---------------------|---|--------------------------|---------------|
| (1) | J0148-14610 | RA: 01 48 40.1154 (27.1671475d) Dec: +06 00 55.15 (6.01532d) Equinox: J2000 | | |
| <i>Comments:</i> Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | |
| (2) | J0148-10916A | RA: 01 48 36.9145 (27.1538104d) Dec: +06 00 18.68 (6.00519d) Equinox: J2000 | | |
| <i>Comments:</i> Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | |
| (3) | J0148-10916B | RA: 01 48 36.8122 (27.1533842d) Dec: +06 00 18.98 (6.00527d) Equinox: J2000 | | |
| <i>Comments:</i> Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | |
| (4) | Group J0148-10916AB | | | |
| <i>Comments:</i> Target Selection=[2 J0148-10916A, 3 J0148-10916B] | | | | |
| (5) | J0148-18151 | RA: 01 48 39.0220 (27.1625917d) Dec: +05 59 49.52 (5.99709d) Equinox: J2000 | | |
| <i>Comments:</i> Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | |
| (6) | J0148-14360 | RA: 01 48 40.5709 (27.1690454d) Dec: +06 00 46.55 (6.01293d) Equinox: J2000 | | |
| <i>Comments:</i> Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | |
| (7) | J1148-04376 | RA: 11 48 27.7030 (177.1154292d) Dec: +52 54 40.91 (52.91136d) Equinox: J2000 | | |
| <i>Comments:</i> Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | |
| (8) | J1148-13485 | RA: 11 48 7.2071 (177.0300296d) Dec: +52 50 18.39 (52.83844d) Equinox: J2000 | | |
| <i>Comments:</i> Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | |

Fixed Targets

Proposal 8512 - Targets - Dissecting Coalescence of Primeval Galaxies

| | | |
|---|---------------------|--|
| (9) | J0100-09273A | RA: 01 00 16.4124 (15.0683850d) Dec: +28 01 14.81 (28.02078d) Equinox: J2000 |
| <i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies]</i> | | |
| (10) | J0100-09273B | RA: 01 00 16.4941 (15.0687254d) Dec: +28 01 14.80 (28.02078d) Equinox: J2000 |
| <i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies]</i> | | |
| (11) | J0100-12754 | RA: 01 00 11.4261 (15.0476088d) Dec: +28 00 46.93 (28.01304d) Equinox: J2000 |
| <i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies]</i> | | |
| (12) | Group J0100-09273AB | |
| <i>Comments:</i> <i>Target Selection=[9 J0100-09273A, 10 J0100-09273B]</i> | | |

Proposal 8512 - Observation 1 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 1: J0148-14610 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------------|--------------------------|--------------------------|---------------------|-------------------------|-----------------------|---|------------------------|---------------------|---------------------|------------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|--|--|--|--|--|--|--|--|--|--|--|
| | (J0148-14610 (Obs 1)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J0148-14610 (Obs 1)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | J0148-14610 | RA: 01 48 40.1154 (27.1671475d) Dec: +06 00 55.15 (6.01532d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | TA Method | | | | | | HFF Readout Mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VERIFY_ONLY | | | | | | false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-POINT-DITHER</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | # | Dither Type | Size | Starting Point | Number of Points | Points | 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Dither Type | Size | Starting Point | Number of Points | Points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pointing Verification | <table border="1"> <thead> <tr> <th>#</th> <th>PV MSA Configuration</th> <th>Filter</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Dithers</th> <th>PV Total Integrations</th> <th>PV Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALLOPEN</td> <td>CLEAR</td> <td>NRSIRS2RAPID</td> <td>10</td> <td>1</td> <td>1</td> <td>1</td> <td>160.478</td> </tr> </tbody> </table> | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | |
| | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395H/F290LP</td> <td>NRSIRS2RAPID</td> <td>99</td> <td>1</td> <td>false</td> <td>true</td> <td>NONE</td> <td>4</td> <td>4</td> <td>5835.556</td> <td>227697</td> </tr> </tbody> </table> | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | |
| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 8512 - Observation 2 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 2: J0148-10916AB Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|----------------------|--------------------|--------------------------|------------------|-------------------------|------------------|-----------------------|------------------------|--------------------|---------------------|-----------------|----------------------|--------------------|--------------------------|------------------|---------------------|---------------------|-----------------------|------------------------|--------------------|--|-----------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|
| | (J0148-10916AB (Obs 2)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J0148-10916AB (Obs 2)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 2:1) Warning (Form): Data Excess over lower threshold (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>Group J0148-10916AB</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments:</i> <i>Target Selection=[2 J0148-10916A, 3 J0148-10916B]</i> </td> </tr> </tbody> </table> | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (4) | Group J0148-10916AB | | | | <i>Comments:</i> <i>Target Selection=[2 J0148-10916A, 3 J0148-10916B]</i> | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (4) | Group J0148-10916AB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments:</i> <i>Target Selection=[2 J0148-10916A, 3 J0148-10916B]</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | TA Method | | | | | HFF Readout Mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VERIFY_ONLY | | | | | false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Dither Type | Size | Starting Point | Number of Points | Points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 8512 - Observation 3 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 3: J0148-18151 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--------------------|--------------------------|------------------|---------------------|------------------|-----------------------|------------------------|--------------------|---------------------|------------------|------------------|----------------------|--------------------|--------------------------|------------------|---------------------|------------------|---|------------------------|--------------------|---------------------|------------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|
| | (J0148-18151 (Obs 3)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J0148-18151 (Obs 3)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>J0148-18151</td> <td>RA: 01 48 39.0220 (27.1625917d) Dec: +05 59 49.52 (5.99709d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies]</i></p> | | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (5) | J0148-18151 | RA: 01 48 39.0220 (27.1625917d) Dec: +05 59 49.52 (5.99709d) Equinox: J2000 | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (5) | J0148-18151 | RA: 01 48 39.0220 (27.1625917d) Dec: +05 59 49.52 (5.99709d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TA Method | HFF Readout Mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VERIFY_ONLY | false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Dither Type | Size | Starting Point | Number of Points | Points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | <table border="1"> <thead> <tr> <th>#</th> <th>PV MSA Configuration</th> <th>Filter</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Dithers</th> <th>PV Total Integrations</th> <th>PV Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALLOPEN</td> <td>CLEAR</td> <td>NRSIRS2RAPID</td> <td>10</td> <td>1</td> <td>1</td> <td>1</td> <td>160.478</td> </tr> </tbody> </table> | | | | | | | | | | | | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | |
| | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395H/F290LP</td> <td>NRSIRS2RAPID</td> <td>99</td> <td>1</td> <td>false</td> <td>true</td> <td>NONE</td> <td>4</td> <td>4</td> <td>5835.556</td> <td>227697</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 |
| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pointing Verification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Spectral Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 8512 - Observation 4 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 4: J0148-14360 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------------|--------------------------|--------------------------|---------------------|-------------------------|-----------------------|---|------------------------|---------------------|---------------------|------------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|--|--|--|--|--|--|--|--|--|--|--|
| | (J0148-14360 (Obs 4)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J0148-14360 (Obs 4)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>J0148-14360</td> <td>RA: 01 48 40.5709 (27.1690454d) Dec: +06 00 46.55 (6.01293d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (6) | J0148-14360 | RA: 01 48 40.5709 (27.1690454d) Dec: +06 00 46.55 (6.01293d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (6) | J0148-14360 | RA: 01 48 40.5709 (27.1690454d) Dec: +06 00 46.55 (6.01293d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | TA Method | | | | | | HFF Readout Mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VERIFY_ONLY | | | | | | false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-POINT-DITHER</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | # | Dither Type | Size | Starting Point | Number of Points | Points | 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Dither Type | Size | Starting Point | Number of Points | Points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pointing Verification | <table border="1"> <thead> <tr> <th>#</th> <th>PV MSA Configuration</th> <th>Filter</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Dithers</th> <th>PV Total Integrations</th> <th>PV Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALLOPEN</td> <td>CLEAR</td> <td>NRSIRS2RAPID</td> <td>10</td> <td>1</td> <td>1</td> <td>1</td> <td>160.478</td> </tr> </tbody> </table> | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | |
| | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395H/F290LP</td> <td>NRSIRS2RAPID</td> <td>99</td> <td>1</td> <td>false</td> <td>true</td> <td>NONE</td> <td>4</td> <td>4</td> <td>5835.556</td> <td>227697</td> </tr> </tbody> </table> | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | |
| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 8512 - Observation 5 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 5: J1148-04376 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------------|--------------------------|--------------------------|---------------------|-------------------------|-----------------------|---|------------------------|---------------------|---------------------|------------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|--|--|--|--|--|--|--|--|--|--|--|
| | (J1148-04376 (Obs 5)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J1148-04376 (Obs 5)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>J1148-04376</td> <td>RA: 11 48 27.7030 (177.1154292d) Dec: +52 54 40.91 (52.91136d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (7) | J1148-04376 | RA: 11 48 27.7030 (177.1154292d) Dec: +52 54 40.91 (52.91136d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (7) | J1148-04376 | RA: 11 48 27.7030 (177.1154292d) Dec: +52 54 40.91 (52.91136d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | TA Method | | | | | | HFF Readout Mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VERIFY_ONLY | | | | | | false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-POINT-DITHER</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | # | Dither Type | Size | Starting Point | Number of Points | Points | 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Dither Type | Size | Starting Point | Number of Points | Points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395H/F290LP</td> <td>NRSIRS2RAPID</td> <td>99</td> <td>1</td> <td>false</td> <td>true</td> <td>NONE</td> <td>4</td> <td>4</td> <td>5835.556</td> <td>227697</td> </tr> </tbody> </table> | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | |
| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 8512 - Observation 6 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 6: J1148-13485 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------------|--------------------------|--------------------------|---------------------|-------------------------|-----------------------|--|------------------------|---------------------|---------------------|------------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|--|--|--|--|--|--|--|--|--|--|--|
| | (J1148-13485 (Obs 6)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J1148-13485 (Obs 6)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(8)</td> <td>J1148-13485</td> <td>RA: 11 48 7.2071 (177.0300296d) Dec: +52 50 18.39 (52.83844d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (8) | J1148-13485 | RA: 11 48 7.2071 (177.0300296d) Dec: +52 50 18.39 (52.83844d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (8) | J1148-13485 | RA: 11 48 7.2071 (177.0300296d) Dec: +52 50 18.39 (52.83844d) Equinox: J2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Category=Galaxy Description=[Emission line galaxies, High-redshift galaxies, Interacting galaxies] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | TA Method | | | | | | HFF Readout Mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VERIFY_ONLY | | | | | | false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-POINT-DITHER</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | # | Dither Type | Size | Starting Point | Number of Points | Points | 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Dither Type | Size | Starting Point | Number of Points | Points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4-POINT-DITHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | PV MSA Configuration | Filter | PV Readout Pattern | PV Groups/Int | PV Integrations/Exp | PV Total Dithers | PV Total Integrations | PV Total Exposure Time | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 8512 - Observation 7 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 7: J0100-09273 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------------------|--------------------|--------------------------|------------------|-------------------------|------------------|-----------------------|------------------------|--------------------|---------------------|-----------------|----------------------|--------------------|--------------------------|------------------|---------------------|---------------------|-----------------------|------------------------|--------------------|---|-----------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|
| | (J0100-09273 (Obs 7)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J0100-09273 (Obs 7)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 7:1) Warning (Form): Data Excess over lower threshold (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(12)</td> <td>Group J0100-09273AB</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments:</i> <i>Target Selection=[9 J0100-09273A, 10 J0100-09273B]</i> </td> </tr> </tbody> </table> | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (12) | Group J0100-09273AB | | | | <i>Comments:</i> <i>Target Selection=[9 J0100-09273A, 10 J0100-09273B]</i> | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | TA Method | | | | | HFF Readout Mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VERIFY_ONLY | | | | | false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | ALLOPEN | CLEAR | NRSIRS2RAPID | 10 | 1 | 1 | 1 | 160.478 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 8512 - Observation 8 - Dissecting Coalescence of Primeval Galaxies

Tue Mar 11 22:09:06 GMT 2025

| Observation | Proposal 8512, Observation 8: J0100-12754 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|----------------------|--------------------------|--------------------------|---------------------|-------------------------|-----------------------|--|------------------------|---------------------|---|------------------|--------------|--------------|--------------|----|---|---------|------|------|---|---|----------|--------|--|--|--|--|--|--|--|--|--|--|--|
| | (J0100-12754 (Obs 8)) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (J0100-12754 (Obs 8)) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Leakcal | Dither | Autocal | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395H/F290LP | NRSIRS2RAPID | 99 | 1 | false | true | NONE | 4 | 4 | 5835.556 | 227697 | | | | | | | | | | | | | | | | | | | | | | | | | |