

Past Instrument Cube Configurations

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	Instrumentation	Facility	DeVeny Optical Spectrograph	At the Telescope
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		<u>User Manuals:</u>		
		LMI Manual		
		DeVeny Manual		
		NIHTS Manual		

This list is provided for reference purposes.

Past Instrument Cube Configuration

2016Q1

- **Through port:** LMI
- **A (large port):** DSSI
- **B (small port):** *unused*
- **C (large port):** DeVeny
- **D (small port):** NIHTS undergoing commissioning with fold mirror

2016Q2

- **Through port:** LMI
- **A (large port):** *unused*
- **B (small port):** *unused*
- **C (large port):** DeVeny
- **D (small port):** NIHTS undergoing commissioning with fold mirror

2016Q3 (July; before primary re-aluminization)

- **Through port:** LMI
- **A (large port):** *unused*
- **B (small port):** *unused*
- **C (large port):** DeVeney
- **D (small port):** NIHTS undergoing commissioning with fold mirror

2016Q4

- **Through port:** LMI (available to users)
- **A (large port):** IGRINS (available to users)
- **B (small port):** *unused*
- **C (large port):** DeVeney (available to users)
- **D (small port):** *NIHTS (no fold mirror; not usable)*

2017Q1

LMI & DeVeney will be available to users the entire quarter. IGRINS will be available until ~28-Feb.

For January & February:

- **Through port:** LMI (available to users)
- **A (large port):** IGRINS (available to users)
- **B (small port):** *unused*
- **C (large port):** DeVeney (available to users)
- **D (small port):** *NIHTS (no fold mirror; not usable)*

For March:

- **Through port:** LMI (available to users)
- **A (large port):** *unused*
- **B (small port):** *unused*
- **C (large port):** DeVeney (available to users)
- **D (small port):** *NIHTS (no fold mirror; not usable)*

2017Q2

- **Through port:** LMI (available to users)
- **A (large port):** *unused*
- **B (small port):** *DSSI (April - May 09), else unused*
- **C (large port):** DeVeney (available to users)
- **D (small port):** *NIHTS (no fold mirror; not usable)*

2017Q3

The top element of the corrector for the straight through port (where LMI is mounted) was replaced in July 2017. IGRINS installation is expected 24-31 August, with final recommissioning check out possibly extending into the first week of September. EXPRES is expected to start commissioning during 17Q3. NIHTS commissioning is TBD.

For July & August:

- **Through port:** LMI (available to users)
- **A (large port):** *unused*
- **B (small port):** *unused*
- **C (large port):** DeVeney (available to users)
- **D (small port):** *NIHTS (commissioning in August)*

For September:

- **Through port:** LMI (available to users)
- **A (large port):** IGRINS (available to users)
- **B (small port):** *unused, or EXPRES FEM (commissioning)*
- **C (large port):** DeVeney (available to users)
- **D (small port):** *NIHTS (commissioning)*

2017Q4

- **Through port:** LMI (available to users)
- **A (large port):** IGRINS (available to users)
- **B (small port):** *DSSI, unused, or EXPRES FEM (commissioning)*
- **C (large port):** DeVeney (available to users)
- **D (small port):** *NIHTS (commissioning)*

2018A

For January:

- **Through port:** LMI (available to users)

- **A (large port):** IGRINS (available to users)
- **B (small port):** EXPRES (*commissioning*)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (*commissioning*)

For February:

- **Through port:** LMI (available to users)
- **A (large port):** unused, or DSSI
- **B (small port):** EXPRES (*commissioning*)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (*commissioning*)

For March through June:

- **Through port:** LMI (available to users)
- **A (large port):** unused, or DSSI
- **B (small port):** EXPRES (*commissioning*)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (*available in shared-risk mode*)

2018B

The LDT secondary mirror will be remounted during the July/August engineering shutdown period.

For July through mid-September:

- **Through port:** LMI (available to users)
- **A (large port):** unused, or DSSI
- **B (small port):** EXPRES (*commissioning*)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (available to users)

For mid-September through December:

- **Through port:** LMI (available to users)
- **A (large port):** IGRINS (available to users)
- **B (small port):** EXPRES (*commissioning/shared-risk mode*)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (available to users)

For 2019A:

For January through April:

- **Through port:** LMI (available to users)
- **A (large port):** IGRINS (available to users)
- **B (small port):** EXPRES (*commissioning & science use*)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (available to users)

For May through June:

- **Through port:** LMI (available to users)
- **A (large port):** unused or DSSI
- **B (small port):** EXPRES (*commissioning & science use*)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (available to users)

For 2019B:

For July through December:

- **Through port:** LMI (available to users)
- **A (large port):** unused or DSSI or POETS
- **B (small port):** EXPRES (available to users, consult with D. Fischer)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (available to users)

For 2020A:

For January through June:

- **Through port:** LMI (available to users)
- **A (large port):** DSSI/QWSSI (Feb and April) or POETS or open
- **B (small port):** EXPRES (available to users, consult with D. Fischer)
- **C (large port):** DeVeney (available to users)
- **D (small port):** NIHTS (available to users)

For 2020B:

For July through December:

- **Through port:** LMI (available to users)
- **A (large port):** unused or DSSI/QWSSI or POETS or open
- **B (small port):** EXPRES (available to users, consult with D. Fischer)
- **C (large port):** DeVenY (available to users)
- **D (small port):** NIHTS (available to users)

For 2021A:

For January through June:

- **Through port:** LMI (available to users)
- **A (large port):** QWSSI (Between January and April) or POETS or open
- **B (small port):** EXPRES (available to users, consult with D. Fischer)
- **C (large port):** DeVenY (available to users)
- **D (small port):** NIHTS (available to users)

For 2021B:

For July through December

- **Through port:** LMI
- **A (large port):** QWSSI (*Jul-Sep, Dec*), POETS (*Sep-Nov*)
- **B (small port):** EXPRES (consult with D. Fischer)
- **C (large port):** DeVenY
- **D (small port):** NIHTS

2022A:

For January through June:

- **Through port:** LMI
- **A (large port):** QWSSI (*Jan, Mar, Jun*), POETS (*Jan, Feb, Mar, Jun*)
- **B (small port):** EXPRES (consult with D. Fischer)
- **C (large port):** DeVenY
- **D (small port):** NIHTS

2022B:

For July through December

- **Through port:** LMI
- **A (large port):** QWSSI (TBD), POETS (TBD), or Open
- **B (small port):** EXPRES (consult with D. Fischer)
- **C (large port):** DeVenY
- **D (small port):** NIHTS (not available, in the lab)

2023A:

For January through June:

- **Through port:** LMI
- **A (large port):** QWSSI (*April*), POETS (*May*), or Open
- **B (small port):** EXPRES (consult with D. Fischer)
- **C (large port):** DeVenY
- **D (small port):** NIHTS (not available, in the lab)

2023B:

For July through December:

- **Through port:** LMI
- **A (large port):** QWSSI (August), POETS (Sept/Oct), or Open
- **B (small port):** EXPRES
- **C (large port):** DeVenY
- **D (small port):** NIHTS (status still to be confirmed)

2024A (Current Semester):

For January through June:

- **Through port:** LMI
- **A (large port):** QWSSI (Jan/Feb), POETS (Mar-Jun), or Open
- **B (small port):** EXPRES
- **C (large port):** DeVenY

- **D (small port):** NIHTS (status still to be confirmed)

2024B (Next Semester):

For July through December:

- **Through port:** LMI
 - **A (large port):** QWSSI (TBD), POETS (TBD), or RIMAS Commissioning (TBD), or Open
 - **B (small port):** EXPRES
 - **C (large port):** DeVeney
 - **D (small port):** NIHTS
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