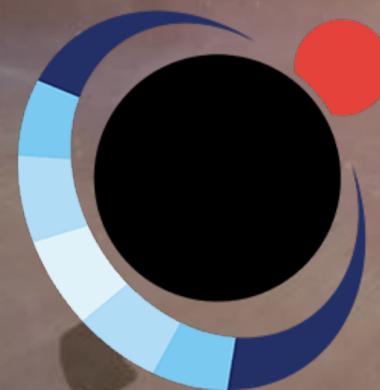


THE ROMAN CORONAGRAPH

SCIENCE COMMISSIONING & CALIBRATIONS



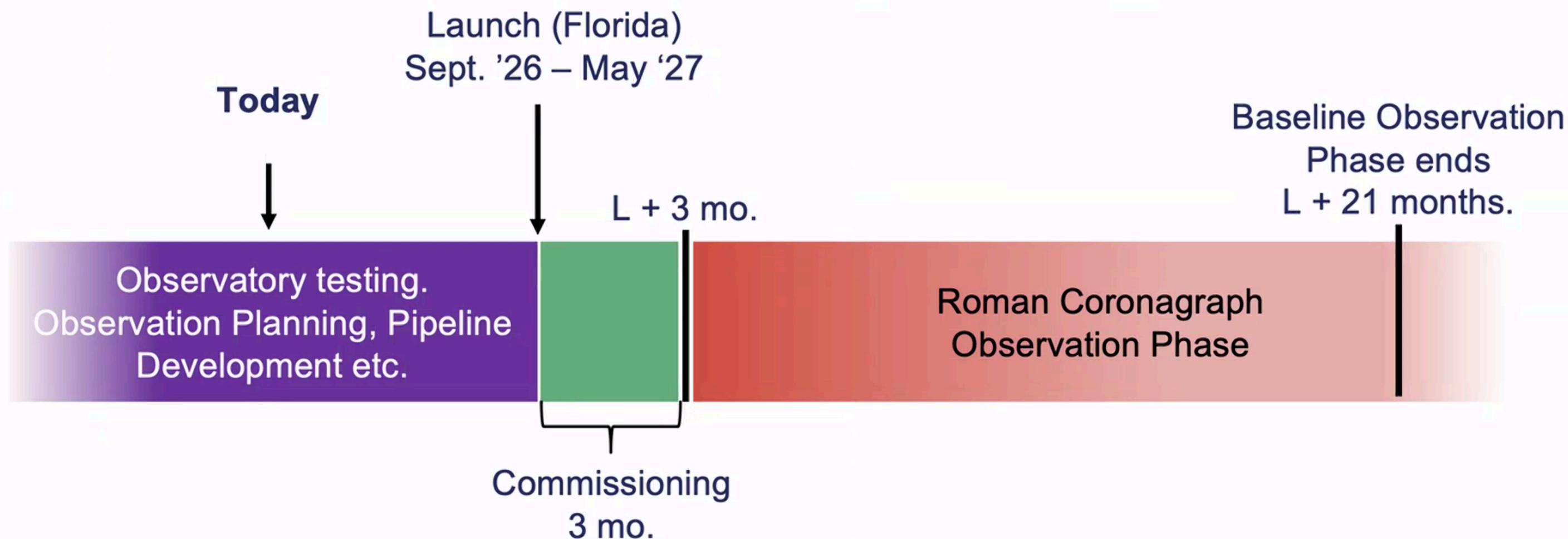
Roman School
Europe

March 9
2026

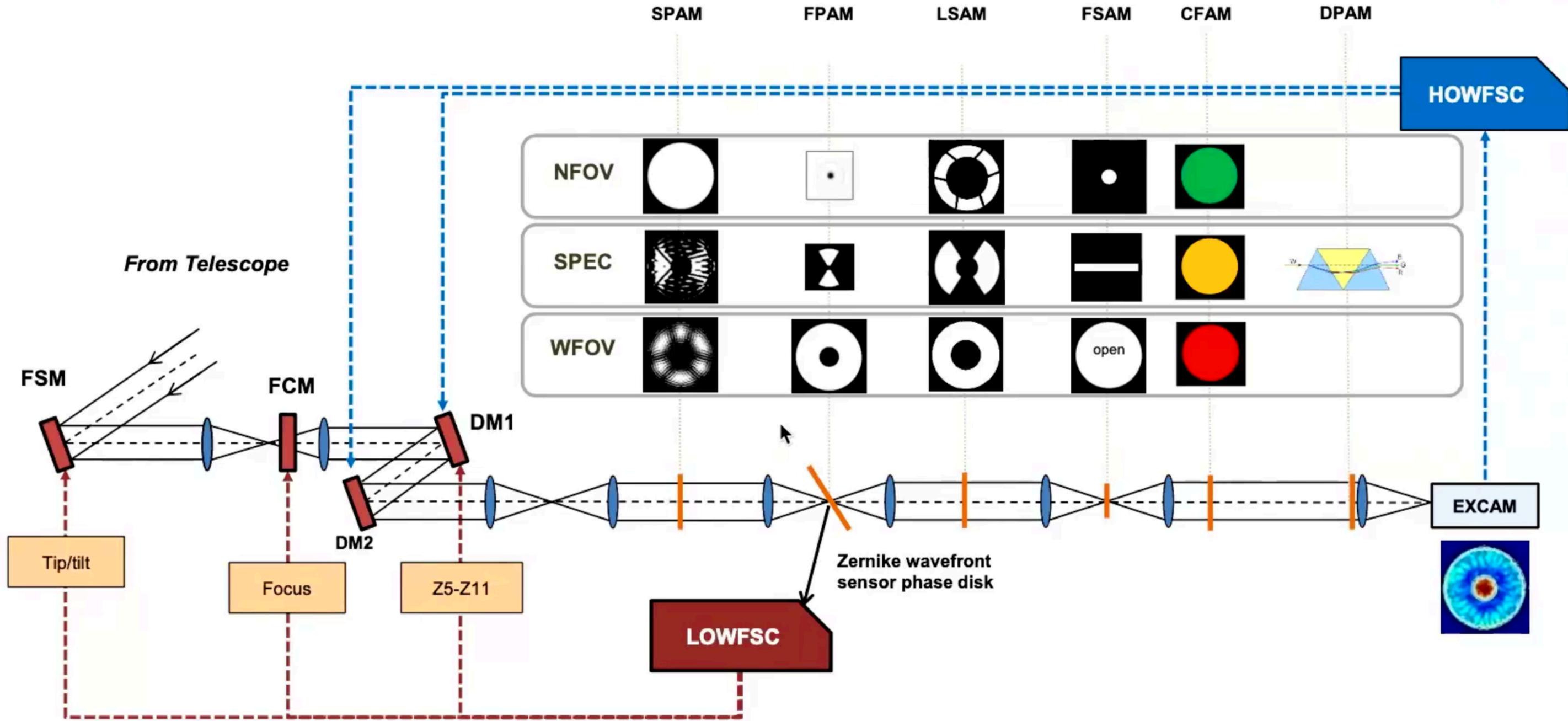
Julien Girard

Space Telescope Science Institute (SOC)
Community Participation Program (CPP)

GENERAL SCHEDULE



HIGH-LEVEL COMMISSIONING SCHEDULE



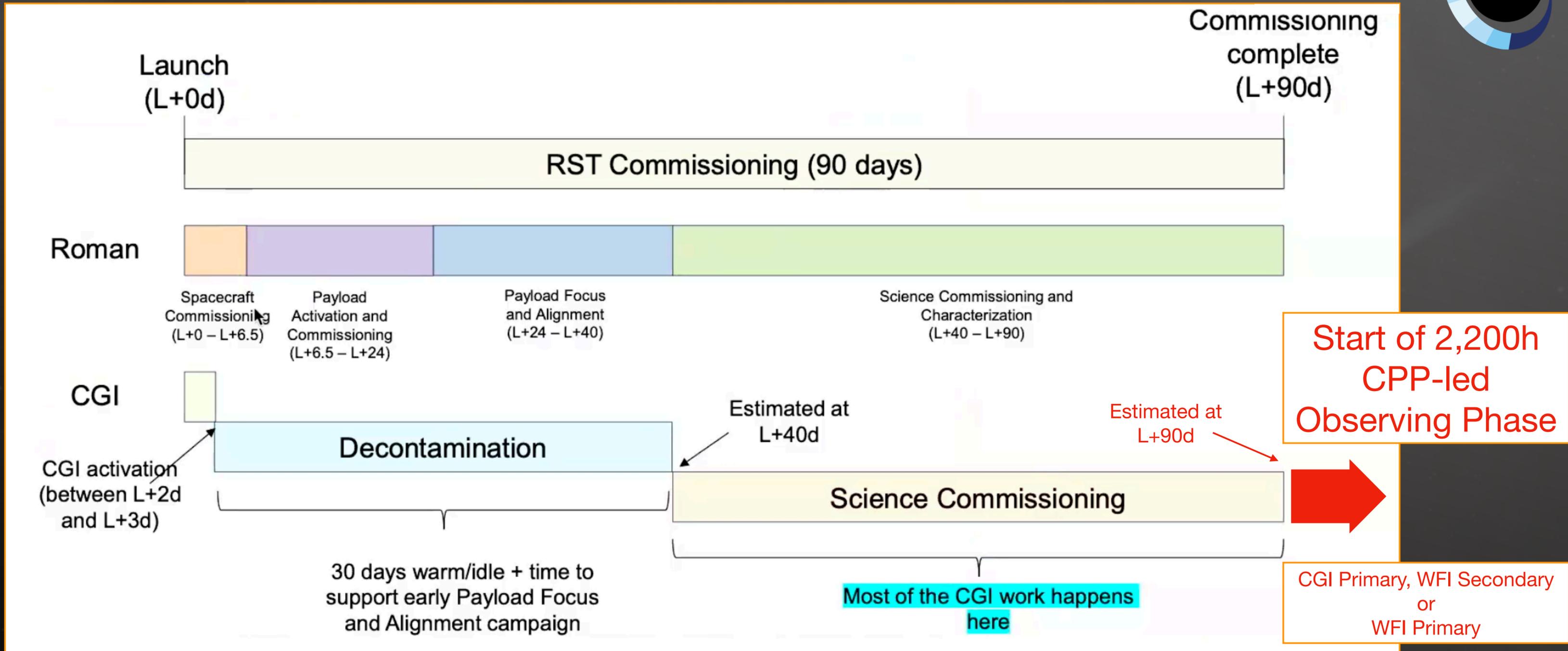
CTC / E. Cady

More information

[SpiritofLyot6/Eric Cady's talk](https://www.spiritoflyot6.com/eric-cady-talk)

Testing HOWFSC & LOWFSC

HIGH-LEVEL COMMISSIONING SCHEDULE



CTC / E. Cady

More information

[SpiritofLyot6/Eric Cady's talk](https://www.esa.int/Science_Exploration/Space_Science/SpiritofLyot6/Eric_Cady's_talk)

All CGI activities in these periods executed via Commissioning Activity Requests (CARs)

TECHNOLOGY DEMONSTRATION



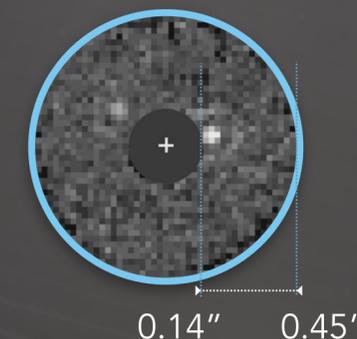
Requirement at Level 1, also called "TTR5" or baseline

Roman shall be able to measure brightness of an astrophysical point source w/ $\text{SNR} \geq 5$ located $6 - 9 \lambda/D$ from an adjacent star with $V_{AB} \leq 5$, flux ratio $\geq 10^{-7}$; bandpass shall have a central wavelength $\leq 600 \text{ nm}$ and a bandwidth $\geq 10\%$.

Narrow Field Imaging - HLC

(required)

575 nm
Band 1



However

Capable of deeper raw contrasts, $< 5 \times 10^{-8}$ achieved during ground, instrument-level testing.

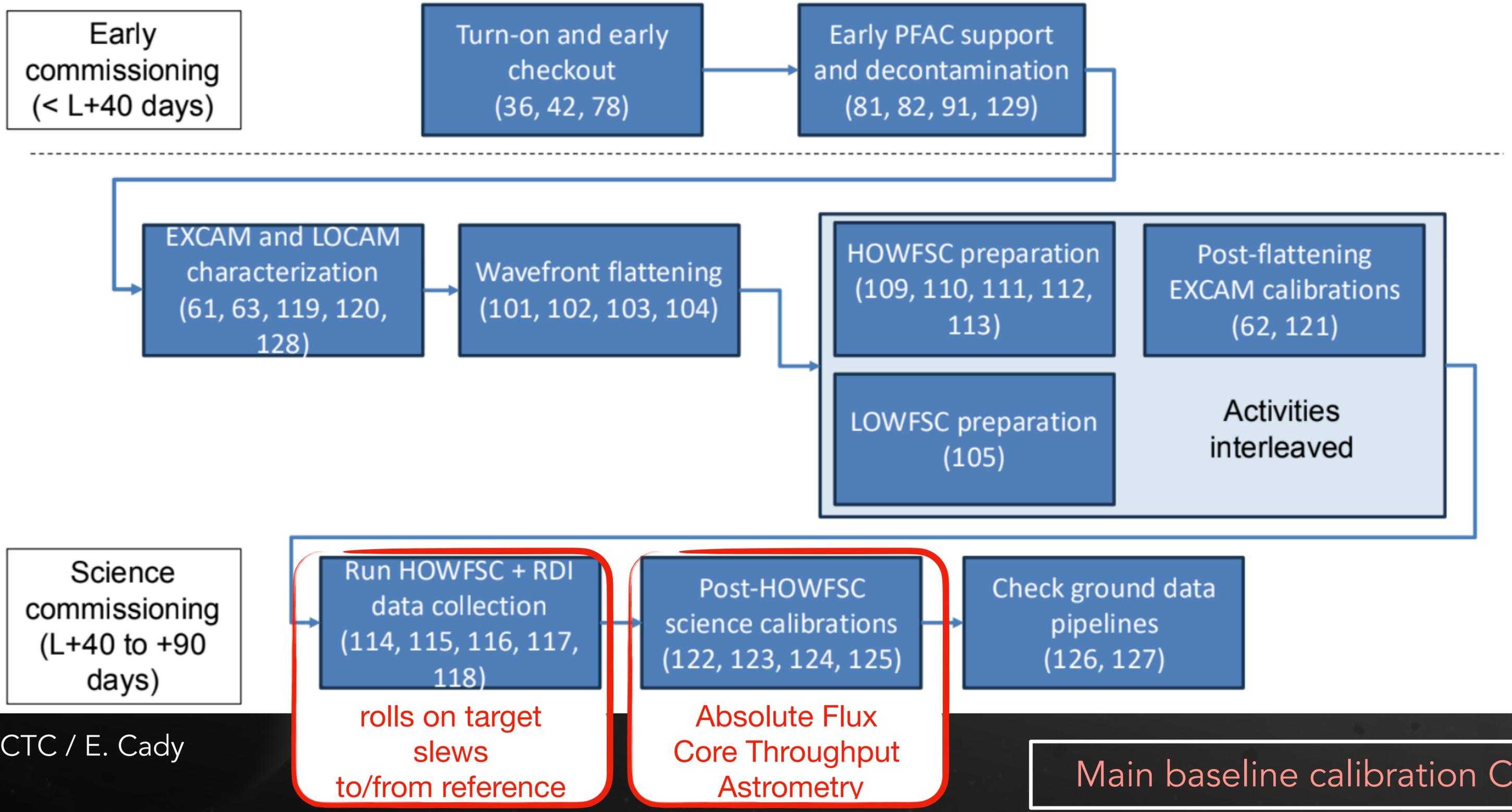
Other "goal" modes (WFOV SPC up to $20 \lambda/D$, slit pectroscopy, Polarimetry, other masks supplied by NASA EXEP) will be tested in best effort basis beyond the baseline

CTC / E. Cady

More information

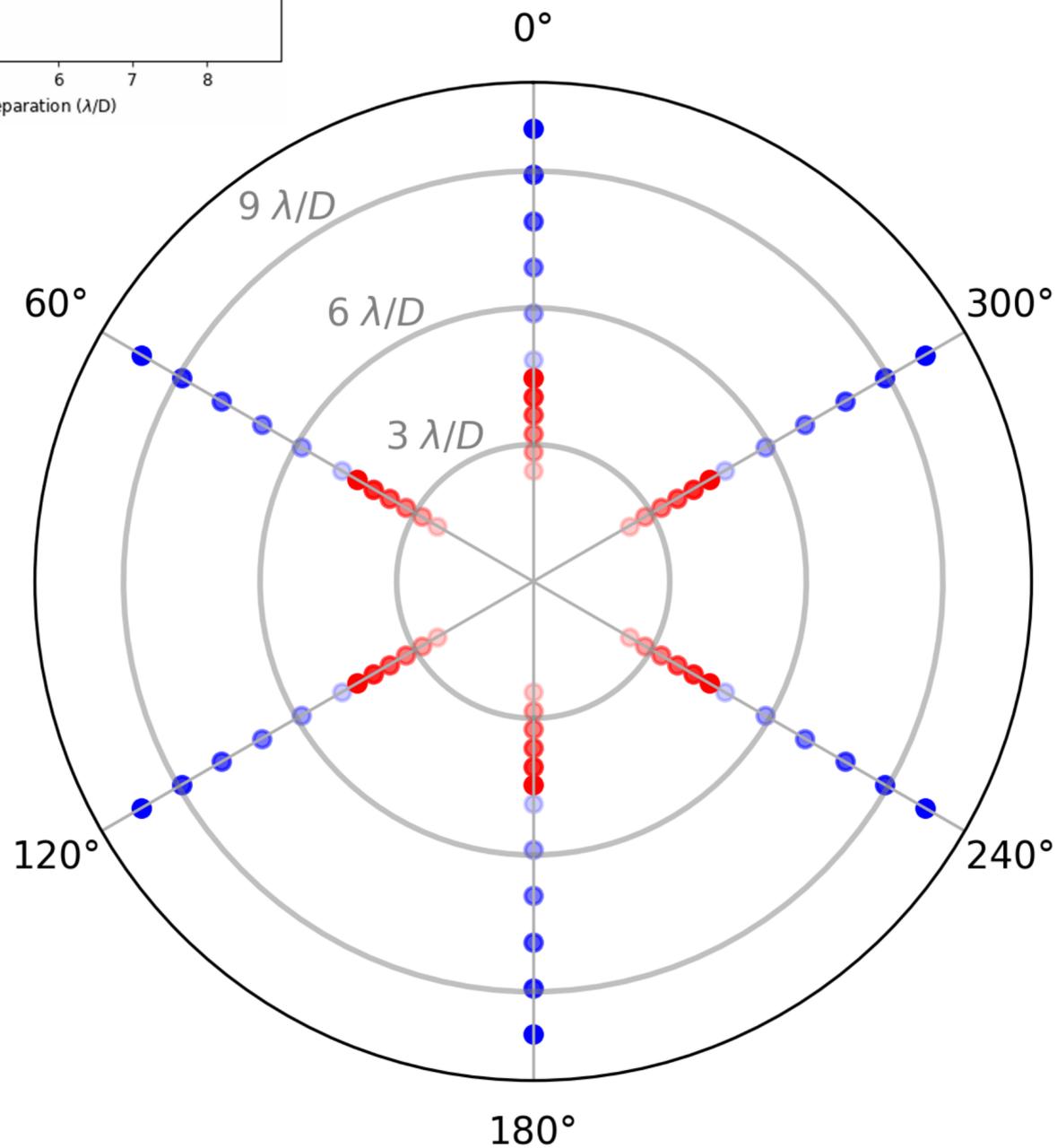
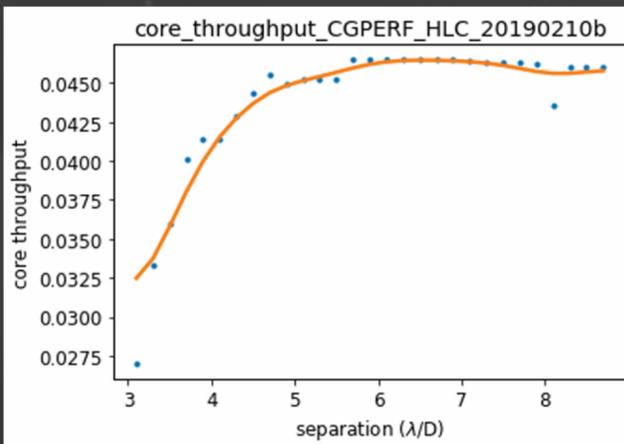
[SpiritofLyot6/Eric Cady's talk](https://www.nasa.gov/spiritoflyot6/eric-cady-talk)

(CGI) BASELINE COMMISSIONING FLOW





EXAMPLE: CORE THROUGHPUT



- CAR 122
 - 72 positions arranged in 6 radial directions:
 - 36 positions in outer sparse pattern
 - 36 positions in inner tight pattern
 - assumes azimuthal structure in core throughput is < 3 cycles per 2π
 - 5 frames per position
 - 360 frames total
 - 1.5 hrs CAR duration
 - Includes 30 min slew to target
 - Target is $V = 10.7$ or 10.9 mag
 - REQ: 2.9%

Baseline calibration CAR