



NASA HQ Perspective

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Astrophysics Budget Outlook

- Currently on Continuing Resolution until Dec 20th
 - FY25 full year appropriations bill is still pending
- FY25 draft appropriations bills update
 - President's Budget Request: \$1,578.1M
(+\$48.1M from FY24 enacted)

	APD Budget	Δ FY24	Δ FY25 request
House Bill	\$1,532.3M	+2.3M	-\$45.8M
Senate Bill	\$1,583.0M	+53.0M	+\$4.9M

- FY26 & beyond are embargoed pending President's Budget for FY26



NASA APD Budget

From March 2024 JSTUC Presentation

Budget Authority (in \$ millions)	Op Plan FY 2022	Enacted FY 2023	Request FY 2024	FY 2025	FY 2026	FY 2027	FY2028	FY 2029
FY24PBR Astrophysics Research	267.4	284.8	289.9	299.3	374.0	384.8	384.3	
FY25PBR Astrophysics Research			CR	300.5	378.7	390.5	390.3	377.1
FY24PBR Cosmic Origins	364.1	314.8	342.5	358.7	348.2	428.4	454.0	
FY25PBR Cosmic Origins			CR	319.0	312.8	307.7	300.4	282.1
FY24PBR Physics of the Cosmos	160.0	180.7	202.0	212.7	204.8	207.8	216.3	
FY25PBR Physics of the Cosmos			CR	210.8	184.3	168.6	176.1	133.7
FY24PBR Exoplanet Exploration	543.0	502.9	463.7	427.1	419.4	313.0	196.9	
FY25PBR Exoplanet Exploration			CR	478.5	459.0	366.1	323.8	339.9
FY24PBR Astrophysics Explorer	234.4	226.8	259.3	324.3	319.5	355.5	497.9	
FY24PBR Astrophysics Explorer			CR	269.3	252.2	380.6	456.4	540.6
FY24PBR Total Budget	1568.9	1510.0	1557.4	1622.1	1665.9	1689.6	1749.4	
FY25PBR Total Budget	1568.9	1510.0	CR	1578.1	1587.0	1613.6	1647.1	1673.4

PBR: President's Budget Request, CR: Continuing Resolution, OP: Operating



NASA APD Budget

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Astrophysics Priorities

- Maintain a **balanced portfolio** during this decade and the next, by balancing investments in missions under development and future missions, against funding for large missions in extended science operations.
- Investment to advance the Astro2020 Decadal Priorities, including technology maturation for the **Habitable Worlds Observatory**, and the selection of an **Astrophysics Probe** mission.
- Ensure successful completion of the **Roman Space Telescope**, within the Agency commitment
- Protect international **partnerships** such as the Laser Interferometer Space Antenna (LISA)



Senior Review of Operating Missions

- The 2025 Senior Review includes the following missions:

Chandra	Hubble
Fermi	NuStar
IXPE	TESS
Swift	XMM Newton

*NICER is excluded, and will be reviewed after a planned repair in Nov 2024

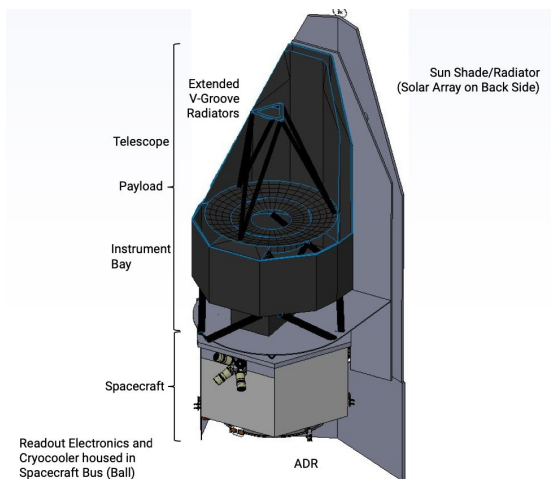
- Timeline
 - August 5, 2024: FY25 Astrophysics Senior Review Final Call for Proposals
 - December 12, 2024: Senior Review final proposals due
- Strategy
 - Schedule designed to provide recommendations for FY27 Budget process
 - Proposals are being prepared using FY25 President's Budget Request
 - A single panel will review all the proposals together
 - OPCR findings will be provided to the review committee



Astrophysics Probes Explorers (APEX)

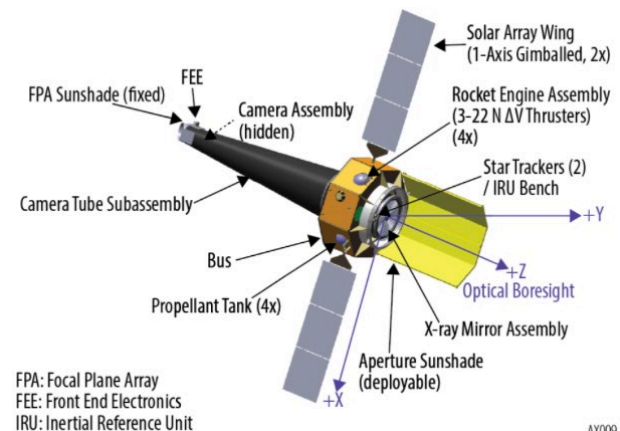
- **Prima**

- Far-infrared observations at a sensitivity several orders of magnitude better than prior state-of-the-art.
- FIRESS is a multimode spectrometer with a bandpass of 24-235 μm at $R > 85$ & a high resolution mode of $R > 2000$ over the whole band and 4400 at 112 μm .
- PRIMAgger is a hyperspectral imager from 28-84 μm with $R=10$ & polarimetric imaging in 4 bands from 80-261 μm .



- **AXIS**

- State-of-the-art X-ray spatial resolution with much greater field of view and sensitivity.
- High spatial resolution ($<1.5''$ Half Power Diameter) X-ray imaging observatory with a 0.3-10 keV bandpass and 24 arcmin diameter field of view. It has an effective area FOV- average of 3600 cm^2 (1keV) and 570 cm^2 (6keV).



AX009

