

# **Hubble Cycle 25 Proposal Selection**

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## **Abstract**

Another year of outstanding operations from *Hubble* has left us with an observatory in excellent shape that continues to add to our understanding of the universe, as it has now for over a quarter of a century. The peer-review proposal selection process plays a fundamental role in establishing a merit-based science program, and that is only possible thanks to the work and integrity of all the Time Allocation Committee (TAC) and review panel members, and the external reviewers. With our sincere gratitude to all who participated in this important community service, and to all of the proposers for keeping *Hubble's* scientific demand very high, we present here the highlights of the Cycle 25 selection process.

## **Introduction**

We received a total of 1,205 proposals by the phase I deadline in April, including 118 in Archival Research and Archival Legacy categories, and 64 in the Theory category, requesting a total of 23,365 orbits. These proposals included investigators from 48 US states (plus the US Virgin Islands and the District of Columbia), and investigators from 44 countries. The international members of the proposal review panels and the TAC met in June to provide recommendations to the Director, who approved 340 proposals totaling 4,800 awarded orbits, which will start executing at the beginning of Cycle 25 in October. As for Cycle 24, up to 200 orbits will be available for Mid-Cycle General Observer (GO) programs targeting recently discovered, non-transient objects. These proposals may be submitted anytime between August 15, 2017 and January 31, 2018.

## **The Call for Proposals**

The *Cycle 25 Call for Proposals (CP)* was released on January 13, 2017, announcing observing opportunities with *Hubble's* current instrumentation: the Advanced Camera for Surveys (ACS), the Cosmic Origins Spectrograph (COS), the Fine Guidance Sensors (FGS), the Space Telescope Imaging Spectrograph (STIS), and the Wide Field Camera 3 (WFC3). Opportunities also included *Webb* Preparatory proposals (with a default proprietary period of zero months) to complement and enhance the scientific impact of future *Webb* observations, and ultraviolet (UV) initiative proposals, designed to take full advantage of the unique UV capabilities of *Hubble* while they still exist. In this CP, the Institute partnered with the *Chandra* X-ray Center to offer the opportunity to propose for Large Joint *Hubble-Chandra* programs that would require at least 75 orbits of *Hubble* time and 400 ksec of *Chandra* time. These proposals are in addition to the regular joint *Hubble-Chandra* proposals. Medium Proposals continued as a separate category for programs requesting between 35 and 74 orbits, to improve the success rate of programs in this historically challenging orbit range. As in previous cycles, as part of an *Hubble* proposal, it was possible to request joint time on *Chandra*, *XMM-Newton*, and on NOAO and NRAO facilities.

The upcoming launch of the *James Webb Space Telescope* brings with it new and exciting science, but also an increased burden on the community to review proposals for both *Hubble* and *Webb*. To minimize this burden, proposers were invited to propose for small (<34 orbits) GO programs to be pre-allocated for Cycle 26. Approximately 1,200 orbits were allocated for Cycle 26 by the Cycle 25

peer-review process. Cycle 26 will be a “ΔCycle,” where no small proposals will be accepted. The *Hubble* proposal schedule will return to normal in Cycle 27, with the *Call for Proposals* scheduled for release in January of 2019.

The *CP* also announced opportunities to request funding for theoretical and archival research. To support the latter, it advertised the release of the *Hubble Source Catalog*, combining tens of thousands of single visit-based WFC3, ACS, and WFPC2 source lists from the *Hubble* Legacy Archive into a single master catalog with roughly 100 million individual sources. The *CP* also encouraged archival proposals that mine the new *Hubble* Spectroscopic Legacy Archive for high-level data products, containing “science grade” co-added spectra of all usable public data, combining exposures for each target from across visits.

Recognizing the unique and limited availability of *Hubble*’s UV capabilities, the UV Initiative was continued to encourage the community (and the TAC and panelists) to increase the fraction of time and awards dedicated to wavelengths below 3200 Å. The UV initiative applied to all Small, Medium, Large, and Treasury GO Proposals (with the exception of SNAP), as well as Archival Proposals. The available UV instrument modes include ACS/Solar-Blind Channel imaging, COS spectroscopy, STIS/Multi-Anode Microchannel Array imaging and spectroscopy, STIS/Charge-Coupled Diode spectroscopy (UV gratings only) and WFC3/UVIS imaging (UV filters only).

## The Review Process

Members of the review panels and the TAC were recruited several months prior to the proposal deadline, and asked to serve on one of the 15 panels organized by science category, consisting of two panels on cosmology, three on galaxies and the intergalactic medium (IGM), two panels covering black holes, two on stellar populations, three on stellar physics, two covering planets, and one covering solar-system objects. Upon receipt of the large number of proposals at the deadline, it became necessary to form an additional panel on galaxies and the IGM, making four panels in that area and bringing the total number of panels to 16. With the exception of solar system, each panel had at least one “mirror” panel, covering similar topics and expertise, allowing proposals to be transferred as needed to avoid conflicts of interest within a given panel. To accommodate the increased specialization of some of the fields, solar system and exoplanet proposals were not evaluated by the same panels, with the “Planets” mirror panels reviewing proposals covering exoplanet and debris disk science, and the solar system panel covering proposals for archival research/observations of solar system targets.

A total of 1,205 proposals were received electronically via the ASTRONOMER’S PROPOSAL TOOL by the phase I deadline in April, and each was sorted by science category and organized into the review panels described above. Each review panel subsequently received between 70 to 90 Small (<35 orbits) and Medium (35 to 74 orbits) proposals to grade in preparation for the in-person discussion in June.

To decrease the burden on the panelists, each was only assigned about two-thirds of the proposals in their panel. These grades were collected a few weeks before the meeting, and sorted into a preliminary rank order within each panel. Proposals ranking in the bottom 40% were triaged, and generally not discussed further in the TAC process unless raised for discussion by a non-conflicted panelist. The Large and Treasury proposals (>75 orbits) were reviewed by the TAC members for discussion in their meeting following the panel reviews.

The review panels met over three days in Baltimore, MD, to deliberate and re-grade the proposals, and produce a final rank order for the non-triaged proposals in each panel. Members of the TAC were also assigned to these panels to serve as non-voting chairs, guiding the discussion and carrying forward opinions (should they be necessary) from the panels to the TAC. Each panel was provided a nominal orbit allocation to help guide decisions, especially for proposals critically ranked at or near the potential award boundary.

Medium proposals were assigned to a single panel for review, where they were graded and ranked amongst the small proposals. To encourage the selection of proposals of this size, each panel was allowed (but not required) to place one medium proposal above the orbit allocation cut-off line that would not count against their panel's orbit allocation. However, any subsequent medium proposals that were highly ranked would come out of the total orbit allocation for a given panel. Panelists were also asked to review the Large and Treasury proposals pertinent to their panel science category. Comments on the Large proposals were provided to the panel chairs for the TAC review.

Immediately following the panel review, the TAC met for an additional two days to review the panels' recommendations, and to decide the final rank orders for the Large and Treasury programs, within those respective orbit pools. Dr. Catherine Cesarsky of Commissariat à l'Énergie Atomique served as chair of the Cycle 25 TAC, and Prof. Charles Bailyn of Yale University, Prof. Robert Kirshner of Harvard University, and Prof. Adam Kraus of The University of Texas at Austin served as TAC members at large. The Institute Director completed the final review of the TAC recommendations in the week following the TAC meeting, and the Cycle 25 results were announced shortly thereafter.

## **Ensuring an Impartial Review**

We continue to strive for impartiality and fairness in the *Hubble* review process. Conflicts of interest for each reviewer are identified based on institution and publication record, and mirror panels are used to avoid conflicts when possible. Once the proposals are initially distributed to the panel, each panelist must identify any remaining strong conflicts of interest, including competing proposals, mentorship relationships, and close collaborations. Panelists are not permitted to grade proposals for which they are conflicted, and for strong conflicts, e.g., any in which they themselves or their institutions would directly benefit from, panelists are not permitted to participate in the discussion.

Additionally, the Institute has taken steps to address the unconscious gender bias of the *Hubble* TAC process, which has resulted in small but statistically significant over-representation of male Principal Investigators (PIs) relative to female PIs in each of the last 24 *Hubble* cycles. Following the recommendation of the Space Telescope Users Committee, printed copies of proposals, used for evaluation by the review panels, listed investigators alphabetically without identifying the Principal Investigator. Most panelist and TAC members welcomed this change and recommended making the proposals completely anonymous, regardless of proposal size. The orientation given to all panel and TAC members also included a presentation by Dr. Stefanie Johnson (University of Colorado, Boulder) on unconscious/implicit bias and best practices for reviewers.

## Results

With 340 of 1,205 proposals accepted, the average *Hubble* Cycle 24 acceptance rate was 28.2%, higher than the 22.4% acceptance rate from the last cycle. The oversubscription ratios for all GO programs were 4.9:1 by orbit and 3.5:1 by proposal (compared to 6.8:1 and 4.5:1, respectively, for the previous cycle). The estimated oversubscription of Archival and Theory proposals by nominal funding was 3.2:1, compared to 4.0:1 from the previous cycle. PIs from ESA member countries lead 23% of the accepted Cycle 25 programs, slightly lower than in the last cycle. The success rate of Medium proposals was 18% by proposal (18 out of 87), for a total of 868 orbits, representing a slight increase with respect to Cycle 24 (with a success rate of 15%).

WFC3 remained the most requested instrument, with 46.3% of the awarded time utilizing this instrument in its various modes on primary targets (16.0% WFC3/IR imaging, 7.6% WFC3/IR spectroscopy, 22.3% WFC3/UVIS imaging, and 0.3% WFC3/UVIS spectroscopy). COS is the second most requested instrument, 24.8% of available orbits, going to FUV (21.4%) and NUV (3.2%) spectroscopy. STIS was awarded 16.2% of the awarded time almost evenly split across the spectroscopic modes. ACS completes the allocation, with 12.7% of the time going to the WFC (11.5%) and SBC (1.2%) imaging modes. The success rate for the proposals under the UV Initiative was 41% by proposal (18 out of 57 for archival research and 112 out of 271 for GO), and 48% by orbit (2,309 orbits out of 9,423 requested).

The Cycle 25 orbit distribution per science category was as follows: 19% for Exoplanets (of 15.6% submitted), 33% for Galaxies (of 33.5% submitted), 18% for Stellar Physics (of 15.6% submitted), 11% for Stellar Populations (of 13% submitted), 11.1% for Intergalactic Medium and Cosmology (of 12.3% submitted), 2% for Solar System (of 1.8% submitted), and 9% for Black Holes (of 8.1% submitted).

## Acknowledgments

We thank all of the *Hubble* TAC members, review panelists, and external reviewers for their service on the *Hubble* Cycle 25 TAC. Numerous Institute personnel contributed to the support of review process.

We acknowledge the partnership of the European Space Agency (ESA) in *Hubble's* continued operations. The ESA office at the Institute, led by Antonella Nota, supported the travel of approximately 30 ESA scientists to participate in the peer review process for Cycle 25.

Science Policies Group astronomers Andy Fruchter, Claus Leitherer, Amaya Moro-Martín, Neill Reid, Brian Williams, and Lou Strolger were responsible for selecting the panelists, distributing the workload among the panelists according to expertise, but taking into account the conflicts, coordinating policy, providing oversight during the review process and checking for duplications within the recommended proposal pool.

Technical Manager Brett Blacker received, organized, and distributed the proposals, oversaw the proposal database, announced the results, and prepared the statistical summaries and figures provided here.

The TAC logistics were devised and coordinated by Sherita Hanna, with Brett Blacker providing technical assistance. Administrative support came from Jody Charles, Martha Devaud, Sarah Flores,

Flory Hill, Linda Kaiser, Tracy Lamb, Kari Marzola, Alisa Meizlish, Kim Oyler, David Patrick, Karen Petro, Karyn Poletis, Michele Sharko, Rickell Sheppard, Darlene Spencer, Rolanda Taylor, Ana-Maria Valenzuela, and Loretta Willers.

Panel support was provided by Andrea Bellini, Annalisa Calamida, Joleen Carlberg, Weston Eck, Bryan Holler, Chris Johnson, Heather Kurtz, Crystal Mannfolk, Shelly Meyett, Steve Penton, Rachel Plesha, Blair Porterfield, Tony Roman, Brett Salmon, Clare Shanahan, and Ben Sunnquist.

Instrument expertise was provided by Sylvia Baggett, Marco Chiaberge, Dan Coe, John Debes, Gisella de Rosa, Linda Dressel, Matt Lallo, Tala Monroe, Ed Nelan, Cristina Oliveira, and Paule Sonnetrucker.

IT support was provided by Val Ausherman, Romeo Gourgue, Jay Grimes, Craig Hollinshead, Craig Levy, Jessica Lynch, Thomas Marufu, Greg Masci, Glenn Miller, Corey Richardson, Patrick Taylor, Calvin Tullos, Shane Wolfe, and other members of ITSD.

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Finally, for facilities we thank Andre Deshazo, Rob Franklin, Tiffany Lallo, Rob Levine, Glenn Martin, Greg Pabst, Kevin Powell, Frankie Schultz, Mike Sharpe, LaMont Strong, Mike Venturella, G Williams and the Bloomberg facilities staff.

**Table 1. Summary of Cycle 25 Results**

Proposals	Requested	Approved	% Accepted	ESA Accepted	ESA % Total
General Observer	971	271	27.9%	62	22.9%
Snapshot	52	12	23.1%	3	25.0%
Archival Research	105	31	29.5%	1	
AR Legacy	13	2	15.4%	0	
Theory	64	24	37.5%	0	
<u>Total</u>	<u>1,205</u>	<u>340</u>	<u>28.2%</u>	<u>66</u>	23.3%
<b>Primary Orbits</b>	<b>23,365</b>	<b>4,800</b>	<b>20.5%</b>	<b>941</b>	<b>19.6%</b>

ESA Orbits/Proposals is GO/Snap only;

2 Orbits are from Calibration Pool

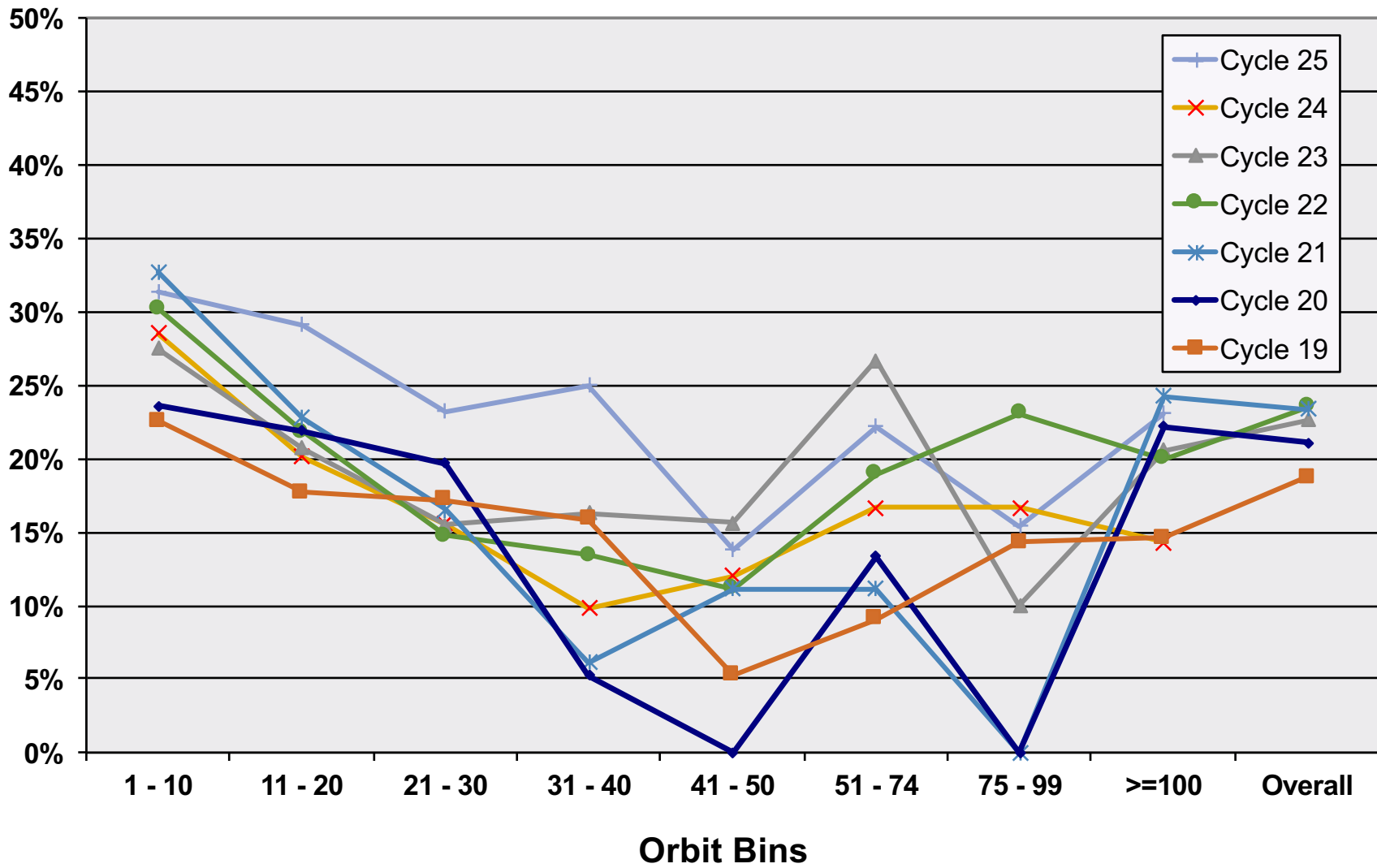
Includes 1200 Pre-allocated orbits from Cycle 26



**Table 3. Proposal Breakdown by PI Country**

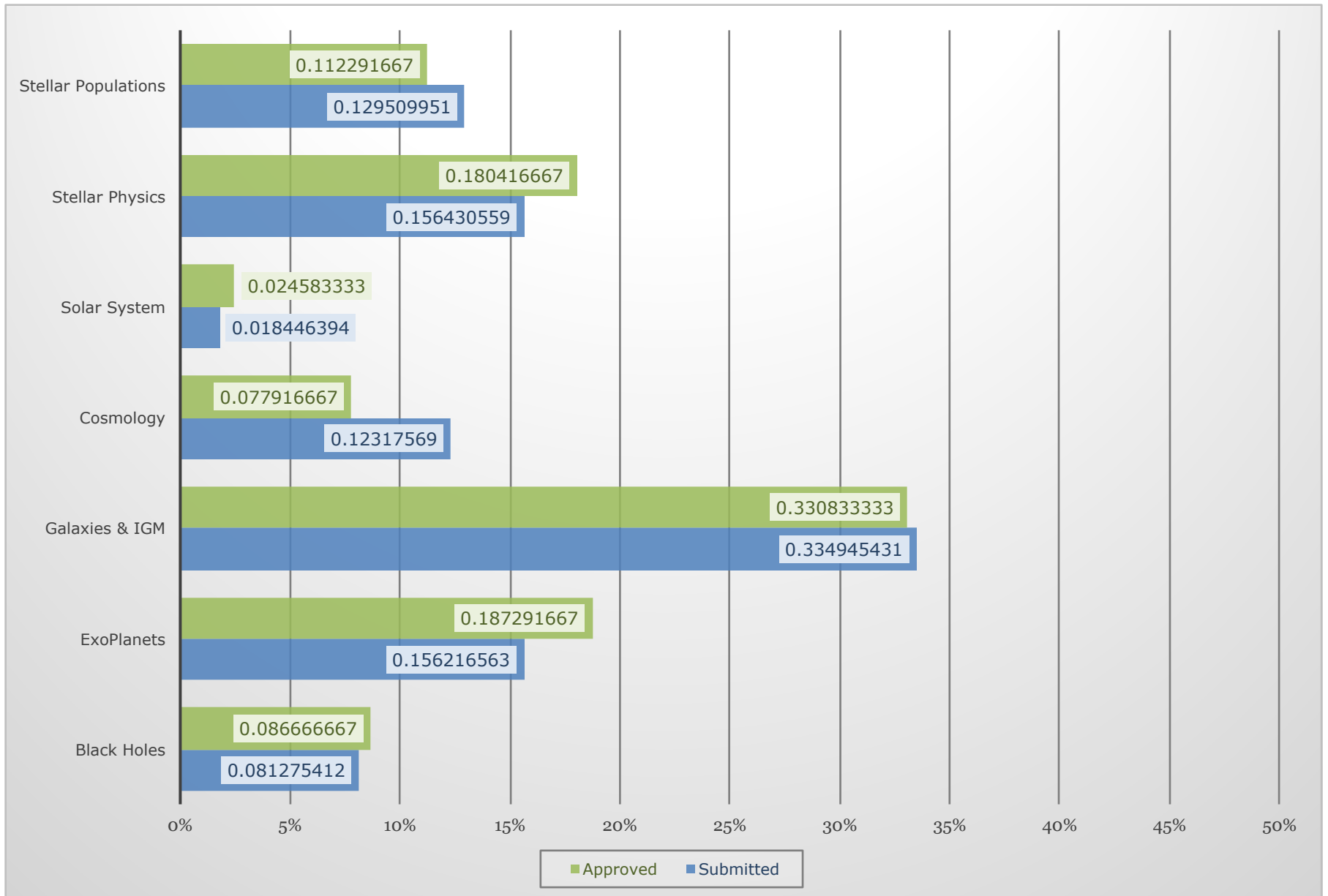
Country	Submitted	Approved	Country	Submitted	Approved
Argentina	1	1	Italy	30	5
Australia	5	4	Japan	10	3
Austria	10	1	Mexico	3	2
Belgium	1	0	Norway	1	1
Brazil	1	0	Poland	2	0
Canada	11	4	Portugal	2	0
Chile	10	1	Russia	2	0
China	8	1	Spain	11	2
Czech Republic	3	0	Sweden	12	3
Denmark	6	1	Switzerland	19	5
Finland	1	0	The Netherlands	25	4
France	11	4	Ukraine	2	1
Germany	46	10	United Kingdom	86	25
India	1	1	United States	881	260
Ireland	1	0			
Israel	6	0	<b><i>ESA Proposals</i></b>	<b><i>272</i></b>	<b><i>66</i></b>

# Proposal Success Rate as a Function of Orbit Requests, Cycles 19-25





# Science Category Distribution for Orbits



# TAC Members and Panelists

Name	Institution	Role
<b>TAC Members</b>		
Catherine Cesarsky, TAC cha	Commissariat à l'Énergie Atomique (CEA)	TAC Chair
Charles David Bailyn, At Larç	Yale University	At-Large
Robert P. Kirshner, At Large	Harvard University	At-Large
Adam L. Kraus, At Large	University of Texas at Austin	At-Large
<b>Extragalactic Members</b>		
Katherine Anne Alatalo	Carnegie Institution of Washington	
Itziar Aretxaga	Instituto Nacional de Astrofísica, Óptica y Electrónica	
Amy J. Barger, Chair	University of Wisconsin – Madison	Chair
Kat A. Barger	Texas Christian University	
Daniel Batcheldor, Chair	Florida Institute of Technology	Chair
Matthew Bayliss	Massachusetts Institute of Technology	
Rachael Lynn Beaton	Princeton University	
Misty C. Bentz	Georgia State University Research Foundation	
Danielle Berg	University of Wisconsin – Milwaukee	
Simeon Bird	The Johns Hopkins University	
John P. Blakeslee, Chair	Dominion Astrophysical Observatory	Chair
Laura Blecha	University of Maryland	
Gregory D. Bothun	University of Oregon	
Maruša Bradač	University of California – Davis	
Michael S. Brotherton	University of Wyoming	
Carolyn Noel Cardamone	Wheelock College	
David Carter	Liverpool John Moores University	
Ena Choi	Columbia University in the City of New York	
Christopher W. Churchill, Ch	New Mexico State University	Chair
James Colbert	Jet Propulsion Laboratory	
Michael Cooper	University of California – Irvine	
Alison F. Crocker	Reed College	
Daniel Dale	University of Wyoming	
Elena Dalla Bontà	Università degli Studi di Padova	
Laura DeGroot	Denison University	
Jennifer Donovan Meyer	Associated Universities, Inc.	
Duncan Farrah	Virginia Polytechnic Institute and State University	
Ignacio P. Ferreras	University College London (UCL)	
Ryan Foley	University of California – Santa Cruz	
Martin Gaskell	University of California – Santa Cruz	
Eric Gawiser, Chair	Rutgers the State University of New Jersey	Chair
Shy Genel	Center for Computational Astrophysics, Flatiron Institute	
Julie Hlavacek-Larrondo	Université de Montréal	
Shirley Ho	Lawrence Berkeley National Laboratory	
Kelly Holley-Bockelmann	Vanderbilt University	
Chao-Ling Hung	University of Texas at Austin	
Jeyhan Kartaltepe	Rochester Institute of Technology	
Brian Keeney	University of Colorado at Boulder	
Alina Kiessling	Jet Propulsion Laboratory	
Anatoly Klypin	New Mexico State University	
Jean-Paul Richard Kneib, Cha	École Polytechnique Fédérale de Lausanne	Chair
Kyoung-Soo Lee	Purdue University	
Bret Lehmer	University of Arkansas Main Campus	

# TAC Members and Panelists

Nicolas Lehner	University of Notre Dame	
Rachael Livermore	University of Texas at Austin	
Lucas M. Macri	Texas A & M University	
Walter Peter Maksym	Smithsonian Institution Astrophysical Observatory	
Crystal Linn Martin, Chair	University of California – Santa Barbara	Chair
Bahram Mobasher	University of California – Riverside	
Mireia Montes	Yale University	
Moreno, Jorge	Pomona College	
Jeffrey Allen Newman	University of Pittsburgh	
Christopher P. O'Dea	University of Manitoba	
Georgiana Ancuta Ogrean	Stanford University	
Elena Pierpaoli	University of Southern California	
Joel R. Primack	University of California – Santa Cruz	
Thomas H. Puzia	Pontificia Universidad Católica de Chile	
Naveen A. Reddy	University of California – Riverside	
Paola Rodriguez Hidalgo	Humboldt State University	
Kate Rubin	San Diego State University	
Laura Virginia Sales	University of California – Riverside	
Sandra Savaglio	University of Calabria	
Alice E. Shapley	University of California – Los Angeles	
Joseph C. Shields	Ohio University	
Colin Slater	University of Washington	
Daniel P. Stark	University of Arizona	
Nicholas Stone	Columbia University in the City of New York	
Clive N. Tadhunter	University of Sheffield	
Stephanie Tonnesen	Carnegie Institution of Washington	
Grant R. Tremblay	Yale University	
Christy A. Tremonti	University of Wisconsin – Madison	
Todd M. Tripp	University of Massachusetts – Amherst	
Marianne Vestergaard, Chair	University of Copenhagen, Niels Bohr Institute	Chair
Anja von der Linden	State University of New York at Stony Brook	
Tommy Wiklind	Catholic University of America	
Liliya L. R. Williams	University of Minnesota – Twin Cities	
Shelley A. Wright	University of California – San Diego	
Lin Yan	California Institute of Technology	

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## Planetary Members

Björn Benneke	California Institute of Technology	
Dennis Bodewits	University of Maryland	
Brendan Bowler	University of Texas at Austin	
Ian Crossfield	University of California – Santa Cruz	
Estelle Deau	NASA Ames Research Center	
Brice-Olivier Demory	University of Bern	
Katherine Brutlag Follette	Amherst College	
Andrea Isella	Rice University	
Daniel Jontof-Hutter	University of the Pacific	
Tiffany Kataria	Jet Propulsion Laboratory	
Matthew M. Knight	University of Maryland	
Emily Kramer	Jet Propulsion Laboratory	
Alain Lecavelier des Etangs	CNRS, Institut d'Astrophysique de Paris	
Katie Morzinski	University of Arizona	
Deborah Padgett, Chair	Jet Propulsion Laboratory	Chair

# TAC Members and Panelists

Alex Harrison Parker	Southwest Research Institute	
Elisa V. Quintana	NASA Goddard Space Flight Center	
Emily Rauscher	University of Michigan	
Scott Sander Sheppard	Carnegie Institution of Washington	
Evgenya L. Shkolnik	Arizona State University	
Amy Simon	NASA Goddard Space Flight Center	
David Kent Sing, Chair	University of Exeter	Chair
Ignas Snellen	Universiteit Leiden	
Johanna Teske	Carnegie Institution of Washington	
Cristina Thomas	Planetary Science Institute	
Ji Wang	California Institute of Technology	
Harold A. Weaver, Chair	The Johns Hopkins University Applied Physics Laboratory	Chair
Michael H. Wong	University of California – Berkeley	
Siyi Xu	European Southern Observatory – Germany	
Ke Zhang	University of Michigan	

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## Galactic Panel Members

Nicola Amorisco	Harvard University	
Jennifer Andrews	University of Arizona	
Francesca Annibali	INAF, Osservatorio Astronomico di Bologna	
Bruce Balick	University of Washington	
Shantanu Basu	The University of Western Ontario	
Vasily Belokurov	University of Cambridge	
Robert Blum	National Optical Astronomy Observatory – CTIO	
Alessandro Bressan	Scuola Internazionale Superiore di Studi Avanzati	
Santi Cassisi	INAF, Osservatorio Astronomico di Teramo	
Stéphane Charlot, Chair	CNRS, Institut d'Astrophysique de Paris	Chair
Ann Marie Cody	NASA Ames Research Center	
Michael C. Cushing	University of Toledo	
Tuan Do	University of California – Los Angeles	
Jacqueline Kelly Faherty	American Museum of Natural History	
Wen-fai Fong	Northwestern University	
Cynthia Suzanne Froning	University of Texas at Austin	
Natalie Gosnell	Colorado College	
Raffaele Gratton	Osservatorio Astronomico di Padova	
Michael D. Gregg	University of California – Davis	
J. J. Hermes	University of North Carolina at Chapel Hill	
George Jacoby	Lowell Observatory	
Jennifer Johnson	The Ohio State University	
Evan Kirby	California Institute of Technology	
Chiaki Kobayashi	University of Hertfordshire	
Karen B. Kwitter	Williams College	
Amy Lien	NASA Goddard Space Flight Center	
Marco Limongi	INAF, Osservatorio Astronomico di Roma	
Kevin Luhman, Chair	The Pennsylvania State University	Chair
Maura A. McLaughlin	West Virginia University	
Dave M. Meyer	Northwestern University	
Dan Milisavljevic	Smithsonian Institution Astrophysical Observatory	
Ferah Munshi	Vanderbilt University	
Annika Peter	The Ohio State University	
Veronique Petit	University of Delaware	
Lisa Prato	Lowell Observatory	

# TAC Members and Panelists

Francesca Primas, Chair	European Southern Observatory – Germany	Chair
Luke Roberts	Michigan State University	
Robyn Sanderson	California Institute of Technology	
Edward Ford Schlafly	Lawrence Berkeley National Laboratory	
Joshua D. Simon	Carnegie Institution of Washington	
Letizia Stanghellini	National Optical Astronomy Observatory, AURA	
Louis E. Strigari	Texas A & M University	
Elisa Toloba	University of the Pacific	
Schuyler D. Van Dyk, Chair	California Institute of Technology	Chair
Jacco Th. van Loon	University of Keele	
Eva Villaver, Chair	Universidad Autónoma de Madrid (UAM)	Chair
Jorick Vink	Armagh Observatory	
Klaus Werner	Eberhard Karls Universität, Tübingen	
David R. Zurek	American Museum of Natural History	

# Accepted Proposals

First Name	Last Name	Institution	ESA Member	Proposal Type	Title
<b>Extragalactic Programs</b>					
Monique	Aller	Georgia Southern University Res. & Svc. Foundation, Inc		GO	Testing Dust Models at Moderate Redshift: Is the $z = 0.437$ DLA toward 3C 196 Rich in Carbonaceous Dust?
Alessandra	Aloisi	Space Telescope Science Institute		GO	Addressing Ionization and Depletion in the ISM of Nearby Star-Forming Galaxies
Matthew	Auger	University of Cambridge	ESA	GO	The Brightest Galaxy-Scale Lens
Andrew	Baker	Rutgers the State University of New Jersey		GO	High-Resolution Imaging of Four Lensed Dusty Star-Forming Galaxies
Eduardo	Banados	Carnegie Institution of Washington		GO	The Host Galaxy and Environment of a Bright QSO at $z = 7.54$
Kat	Barger	Texas Christian University		GO	The Fate of Infalling Gas During its Final Approach onto the Milky Way Disk
Aaron	Barth	University of California – Irvine		GO	Measuring the Accretion Disk Size in Mrk 509 Using Continuum Reverberation Mapping
Aaron	Barth	University of California – Irvine		GO	Probing the Accretion Flow and Emission-Line Regions of M81, the Nearest Broad-Lined Low-Luminosity AGN
Francesco	Belfiore	University of California – Santa Cruz		GO	Galactic Fireworks: Detecting Young Stars Formed in Galactic Outflows
Vardha	Bennert	Cal Poly Corporation, Sponsored Programs Department		SNAP	A Local Baseline of the Black Hole Mass – Host Galaxy Scaling Relations for Active Galaxies
Misty	Bentz	Georgia State University Research Foundation		GO	The Host Galaxy of the Low Mass Black Hole in UGC 06728
Danielle	Berg	University of Wisconsin – Milwaukee		GO	Resolving the Abundance Discrepancy with <i>Hubble</i> /COS
Edouard	Bernard	Observatoire de la Côte d'Azur	ESA	GO	The Elusive Old Stellar Halo of Low-Mass Spirals: RR Lyrae Stars in NGC 55
Stefano	Bianchi	Università degli Studi Roma Tre	ESA	GO	NGC 3147, a Golden True Type 2 AGN?
Benjamin	Boizelle	University of California – Irvine		GO	Stellar Luminosity Profiles for Precision Measurements of Black Hole Mass in Early-Type Galaxies
David	Bowen	Princeton University		GO	The Baryon Reservoirs in Ultra-Diffuse Galaxies (UDGs)
Michael	Boylan-Kolchin	University of Texas at Austin		AR	Dwarf Galaxies from Deep Fields to the Near Field
Sean	Brennan	Rutgers the State University of New Jersey		AR	Testing Methods to Measure Dark Matter Substructure with Gravitational Lensing
Joanna	Bridge	The Pennsylvania State University		AR	Spatially Resolved Emission Line Ratios for Nuclear AGN Selection
Joseph	Burchett	University of Massachusetts – Amherst		AR	Surveying the CGM and IGM across Four Orders of Magnitude in Environmental Density
Joseph	Burchett	University of Massachusetts – Amherst		GO	Finding the Missing Metals around the Universe's Most Prodigious Polluters
Nell	Byler	University of Washington		AR	PHAT+MaNGA: Using Resolved Stellar Populations to Improve the Recovery of Star-Formation Histories from Galaxy Spectra
Zheng	Cai	University of California – Santa Cruz		GO	Imaging the Most Massive Galaxy Overdensities at $z = 2.2$ : The Morphology-Density Relation at High Redshift
Daniela	Calzetti	University of Massachusetts – Amherst		GO	The Emergence of Star Clusters
Raoul	Canameras	University of Copenhagen, Niels Bohr Institute	ESA	GO	The Nature of Ultra-Massive Lens Galaxies
Rebecca	Canning	Stanford University		GO	<i>Hubble</i> Grism Observations of the Highest- $z$ Massive Galaxy Cluster
Caitlin	Casey	University of Texas at Austin		GO	The Environments of $6 < z < 7$ Quasars: Rich with Starbursts?

# Accepted Proposals

Stephen	Cenko	NASA Goddard Space Flight Center		GO	Multi-Wavelength Spectroscopy of Tidal Disruption Flares: A Legacy Sample for the <i>LSST</i> Era
Marco	Chiaberge	Space Telescope Science Institute	ESA	GO	The Host Galaxy of the Gravitational Wave Recoiling Black Hole Candidate 3C186
John	Chisholm	Observatoire de Genève	ESA	GO	Do Galactic Outflows Shape the Stellar Mass–Metallicity Relationship?
Christopher	Churchill	New Mexico State University		AR	The Baryon Cycle through Cosmological Simulations: Taking COS to the Next Generation of Analysis
Geoffrey	Clayton	Louisiana State University and A & M College		GO	A First Investigation of the UV Extinction Properties of Interstellar Dust in M33
Thomas	Connor	Carnegie Institution of Washington		GO	UV Observation of a QSO Sightline Intersecting an X-ray Identified Filament of the Cosmic Web
Jeff	Cooke	Swinburne University of Technology		GO	Mapping the Escaping Ionizing Flux of Lyman-Continuum Galaxies
Lauren	Corlies	The Johns Hopkins University		AR	Resolving the Small-Scale Structure of the Circumgalactic Medium in Cosmological
Anson	D'Aloisio	University of Washington		AR	Interpreting <i>Hubble</i> Observations with Simulations of Reionization: The Ionizing Photon Budget and the Decline of Lyman- $\alpha$ emission in $z > 6$ Dropouts
Emanuele	Daddi	Commissariat à l'Énergie Atomique (CEA)	ESA	GO	Spectroscopic Redshifts and Age Dating of a First Statistical Sample of Passive Galaxies at $z \sim 3$
Haakon	Dahle	University of Oslo	ESA	GO	A High-Definition Study of the Brightest Lensed Galaxy in the Universe
Frederick	Davies	University of California – Santa Barbara		AR	New Constraints on the Hard Ionizing Photon Budget and the Lifetime and Obscuration of Quasars During the Epoch of Helium Reionization
Stéphane	De Barros	Observatoire de Genève	ESA	GO	Beacons in the Dark: Using the Most Distant Galaxies to Probe Cosmic Reionization
Roelof	de Jong	Leibniz-Institut für Astrophysik Potsdam (AIP)	ESA	GO	Inner Stellar Halos of Spiral Galaxies: Accretion or in-situ Formation?
Hugh	Dickinson	University of Minnesota – Twin Cities		AR	Constraining the Evolution of the Hubble Parameter Using Cosmic Chronometers
Hui	Dong	Instituto de Astrofísica de Andalucía (IAA)	ESA	GO	Ultraviolet Spectroscopy of the Dust Extinction in the M31 Inner Bulge
Harald	Ebeling	University of Hawaii		SNAP	Beyond MACS: A Snapshot Survey of the Most Massive Clusters of Galaxies at $z > 0.5$
Peter	Erwin	Max-Planck-Institut für Extraterrestrische Physik	ESA	GO	Solving the Mystery of Galaxy Bulges and Bulge Substructure
Mark	Fardal	Space Telescope Science Institute		AR	Models of Stellar Streams for Constraining Local Group Dynamics with <i>Hubble</i> Proper Motion Data
Duncan	Farrah	Virginia Polytechnic Institute and State University		GO	A Case Study of an Extremely Luminous, Highly Spatially Extended Starburst only 1.7 Gyr after the Big Bang
Harry	Ferguson	Space Telescope Science Institute		GO	Can Low-Luminosity Galaxies Reionize the Universe?
Travis	Fischer	NASA Goddard Space Flight Center		AR	Do AGN Outflows Support Negative Feedback?
David	Fisher	Swinburne University of Technology		GO	The Ages and Baryonic Masses of Clumps in Turbulent, Clumpy Disk Galaxies
Andrew	Fox	Space Telescope Science Institute	ESA	AR	The Mass Outflow Rate of the Milky Way
Andrew	Fox	Space Telescope Science Institute	ESA	GO	Properties of the Galactic Nuclear Wind at Low Latitudes
Andrew	Fruchter	Space Telescope Science Institute		GO	The Mystery of ASASSN-15lh
Shy	Genel	Center for Computational Astrophysics, Flatiron Institute		AR	Understanding Galaxy Shapes across Cosmic Time Using the IllustrisTNG Simulation
Michael	Gladders	University of Chicago		SNAP	Building the SPT- <i>Hubble</i> Legacy: Imaging Massive Clusters to $z = 1.5$
Anthony	Gonzalez	University of Florida		GO	The <i>Hubble</i> Frontier Field MACS 1159.5+2223: Flanking Observations for Intracluster Light

# Accepted Proposals

Ariel	Goobar	Stockholm University	ESA	GO	The Lens and Host Galaxy of the Multiply-Imaged Gravitationally Lensed SN Ia iPTF16geu
Michael	Gregg	University of California – Davis		SNAP	Snapshot Survey of the Globular Cluster Populations of Isolated Early-Type Galaxies
Yicheng	Guo	University of California – Santa Cruz		AR	Dwarfs in the Deepest Fields at Noon: Studying Size and Shape of Low-Mass Galaxies out to $z \sim 3$ in Five <i>Hubble</i> Legacy Fields
Fred	Hamann	University of California – Riverside		GO	Does the Relativistic X-Ray Outflow Quasar PDS 456 Have the Fastest-Ever UV BAL at $\sim 0.3c$ ?
William	Harris	McMaster University		GO	The Perseus Cluster: Bridging the Extremes of Stellar Systems
Timothy	Heckman	The Johns Hopkins University		GO	Testing a New Method for Finding Leaky Galaxies: Implications for the Epoch of Reionization
Timothy	Heckman	The Johns Hopkins University		GO	The <i>Hubble</i> -pNFL program: Mapping the Fluorescent Emission of Galactic Outflows
Erin	Hicks	University of Alaska Anchorage		AR	Characterizing the Physical Mechanisms Driving Feeding and Feedback in Active Galaxies
Benne	Holwerda	University of Louisville Research Foundation, Inc.		GO	The UV Attenuation in <i>Webb</i> Target VV 191
Benne	Holwerda	University of Louisville Research Foundation, Inc.		GO	The Cluster Population of UGC 2885
Benne	Holwerda	University of Louisville Research Foundation, Inc.		GO	Dusty Dwarfs Galaxies Occulting a Bright Background Spiral
Jay	Howk	University of Notre Dame		GO	The CGM of Massive Galaxies: Where Cold Gas Goes to Die?
Yuri	Izotov	Ukrainian National Academy of Sciences, MAO		GO	Lyman- $\alpha$ Emission in Nearby Star-Forming Galaxies with the Lowest Metallicities and the Highest [O III]/[O II] Ratios
Jason	Jaacks	University of Texas at Austin		AR	Simulating Pre-Galactic Metal Enrichment for <i>Webb</i> Deep-Field Observations
Linhua	Jiang	Peking University		GO	Spectroscopically Confirmed $z > 6$ Galaxies with Extremely Blue UV Slopes: Possible Pop III-Dominated Targets for <i>Webb</i> Spectroscopy
Sean	Johnson	Princeton University		GO	Spatially Resolved Rest-UV Spectroscopy of a Prototypical Quasar-Driven Superwind at Low- $z$
Sean	Johnson	Princeton University		GO	The First High-Resolution Image of Coronal Gas in a Starbursting Cool-Core Cluster
Sean	Johnson	Princeton University		SNAP	Unveiling Quasar Fueling through a Public Snapshot Survey of Quasar Host Environments
Tucker	Jones	University of California – Davis		GO	Accurate Emission-Line Diagnostics at High Redshift
Vikram	Khaire	Inter-University Centre for Astronomy and Astrophysics		AR	Filling the Void: A Comprehensive Survey of the Intergalactic Medium at $z \sim 1$ Using STIS/COS Archival Spectra
Tae-Sun	Kim	University of Wisconsin – Madison		AR	A COS Archival Survey for Proximate Absorbers at $z \sim z(\text{em})$ in AGN Spectra at $z < 0.4$
Chris	Kochanek	The Ohio State University		GO	Ultraviolet Spectroscopic Monitoring of a Tidal Disruption Event
Steven	Kraemer	Catholic University of America		GO	Characterizing Mass Outflows in Palomar Green Quasars: Evidence for AGN Feedback?
Yair	Krongold	Universidad Nacional Autónoma de México (UNAM)		GO	Searching for the UV Counterpart of the Extraordinary X-ray UFO in the NLSy1 IRAS17020+4544
Kirsten	Larson	California Institute of Technology		GO	Clumpy Star Formation in Local LIRGS
Marie Wingyee	Lau	University of California – Santa Cruz		AR	Observing AGN Feedback Down-the-Barrel Using Associated Absorbers at $z < \sim 1.5$
Nicolas	Lehner	University of Notre Dame		GO	The AGN Impact on the Circumgalactic Medium of Cen A
Karen	Leighly	University of Oklahoma – Norman Campus		AR	What's in the Wind? Determining the Properties of Outflowing Gas in Powerful Broad Absorption Line Quasars
Claus	Leitherer	Space Telescope Science Institute		AR	A New Probe of Dust Attenuation in Star-Forming Galaxies



# Accepted Proposals

Aigen	Li	University of Missouri – Columbia		AR	Unifying the Interstellar Extinction and Elemental Abundances: A Comprehensive Study of the Dust Properties in Individual Interstellar Sight Lines
Simon	Lilly	Eidgenössische Technische Hochschule (ETH)	ESA	GO	Transport of Magnetic Fields into the Circumgalactic Medium
Ruari	Mackenzie	Durham University	ESA	GO	Witnessing the Assembly of Galaxies in an Extended Gas-Rich Structure at $z \sim 3.25$
Walter	Maksym	Smithsonian Institution Astrophysical Observatory		GO	Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at only 90 Mpc
Walter	Maksym	Smithsonian Institution Astrophysical Observatory		GO	Resolved BPT Mapping of Nearby AGN
Lucia	Marchetti	Open University	ESA	SNAP	SNAPSHOT Observations of the Largest Sample of Lensed Candidates in the Equatorial and Southern Sky Identified with <i>Herschel</i>
Michael	McCourt	University of California – Santa Barbara		AR	Towards an Understanding of the Origin of O VI in the Circumgalactic Medium
Michael	McDonald	Massachusetts Institute of Technology		GO	Revealing Thermal Instabilities in the Core of the Phoenix Cluster
Daniel	McIntosh	University of Missouri – Kansas City		AR	Mining CANDELS for Tidal Features to Measure Major Merging at Cosmic High Noon
Eileen	Meyer	University of Maryland, Baltimore County		GO	An Infrared Imaging Test of the IC/CMB Model for the Unusual Spectrum of AP Librae
Genoveva	Micheva	University of Michigan		GO	C III]1909 Imaging of Three Local Starbursts
Chris	Mihos	Case Western Reserve University		GO	Galaxies at the Extremes: Ultradiffuse Galaxies in the Virgo Cluster
Desika	Narayanan	University of Florida		AR	Modeling Dust Attenuation Laws in Galaxies with Cosmological Zoom Simulations
Anna	Nierenberg	The Ohio State University		GO	Testing CDM with the WFC3 Grism
Christopher	O'Dea	University of Manitoba		GO	The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback
Goeran	Oestlin	Stockholm University	ESA	GO	Lyman- $\alpha$ and ISM Tomography of Haro 11
Benjamin	Oppenheimer	University of Colorado at Boulder		AR	H I and Low Metal Ions at the Intersection of Galaxies and the CGM
Jason	Prochaska	University of California – Santa Cruz		GO	ELGs in Absorption: Tracing the Cosmic Baryon Cycle from Noon 'til Dusk
Thomas	Quinn	University of Washington		AR	Cosmic Ray-Driven Outflows and the Structure of the CGM
Gordon	Richards	Drexel University		AR	Application of Independent Component Analysis to Legacy UV Quasar Spectra
Adam	Ritchey	Eureka Scientific Inc.		AR	Constructing a Phase Diagram for the Interstellar Medium through the Analysis of O I Fine-Structure Excitations
Justin	Roberts-Pierel	University of South Carolina Research Foundation		AR	Turning Gravitationally Lensed Supernovae into Cosmological Probes
Andrew	Robinson	Rochester Institute of Technology		GO	Revealing the Circumnuclear Torus: <i>Hubble</i> Imaging of Active Galaxies Observed During a <i>Spitzer</i> Reverberation-Mapping Campaign
Andrew	Robinson	Rochester Institute of Technology		GO	Monsters on the Move: Confirming Gravitational Wave Recoiling Supermassive Black Hole Candidates
Michael	Rodruck	The Pennsylvania State University		GO	Star Clusters in Tidal Debris: A UV Survey of Stellar Populations, Galaxy Interactions, and Evolution
David	Rosario	Durham University	ESA	GO	AGN Before and After: Towards a Balanced View of the Connection between Circumnuclear Gas and Nuclear Black Hole Activity
Abhijit	Saha	National Optical Astronomy Observatory		GO	Extending the DA White Dwarf Spectrophotometric Network to the Southern Hemisphere
Ruben	Sanchez-Janssen	Royal Observatory Edinburgh	ESA	GO	Star Cluster Formation in Extreme Environments: An Isolated Pair of Closely Interacting Dwarf Galaxies
Mischa	Schirmer	Gemini Observatory, Southern Operations		GO	Low Redshift Lyman- $\alpha$ Blobs

# Accepted Proposals

Nathan	Secrest	Naval Research Laboratory		GO	The <i>Hubble</i> View of Was 49b: An Overmassive AGN in a Merging Dwarf Galaxy?
J.	Shull	University of Colorado at Boulder		GO	Hot Photons: Measuring the Ionizing Continuum and EUV Emission Lines of Quasars
John	Silverman	University of Tokyo		GO	Emergence of the Supermassive Black Hole–Galaxy Mass Relations at $z > 1$
Robert	Simcoe	Massachusetts Institute of Technology		GO	Galaxies in the Diffuse Baryon Field Approaching Reionization: A Joint Study with <i>Webb</i> , <i>Hubble</i> , and Large Telescopes
Raymond	Simons	The Johns Hopkins University		AR	Timing Thick Disk Formation: An Indirect Census of Stellar Kinematics to $z \sim 2$ from Legacy <i>Hubble</i> Imaging
Daniel	Stark	University of Arizona		GO	Extreme Wolf-Rayet Galaxies with <i>Hubble</i> /COS: Understanding C III] Emission in the Reionization Era
Sabrina	Stierwalt	The University of Virginia		GO	Star Cluster Populations of Interacting Dwarf Galaxies
Ming	Sun	University of Alabama in Huntsville		GO	Spectacular Optical Filaments in the X-ray Brightest Group Cool Core
Nial	Tanvir	University of Leicester	ESA	GO	Identifying $\gamma$ -ray Bursts at Very High Redshifts
Nicolas	Tejos	Millennium Institute of Astrophysics		GO	Pinpointing the Cosmic Web between Massive Galaxy Clusters
David	Thilker	The Johns Hopkins University		GO	Enabling Hubble UV Exploration of the Low Surface-Brightness Universe: A Pilot Study with the WFC3 X Filter Set
Vithal	Tilvi	Arizona State University		GO	Confirmation of the Most Distant Quasar
Benny	Trakhtenbrot	Eidgenössische Technische Hochschule (ETH)	ESA	GO	Testing the Relevance of Mergers and Environment for the Fastest Growing Black Holes in the Most Intensely Star-Forming Galaxies
Tommaso	Treu	University of California – Los Angeles		GO	Probing the Dark Universe with Quadruply Imaged Quasars
Todd	Tripp	University of Massachusetts – Amherst		GO	Direct Constraints on the Temperature and Ionization of Low-Redshift O VI Absorbers from Ultra-High Resolution Spectroscopy of H1821+643
Eleonora	Troja	University of Maryland		GO	Identify the Signature of Neutron Star Mergers through Rapid <i>Hubble</i> Observations of a Short $\gamma$ -ray Burst
Jonathan	Trump	University of Connecticut		GO	Ultraviolet Echoes of Quasar Accretion Disks
R.	Tully	University of Hawaii		GO	Local Void Reflex: IR TRGB Distances to Obscured Galaxies at the South Supergalactic Pole
Roeland	van der Marel	Space Telescope Science Institute		AR	Getting the $\sigma$ in the $M_{\text{BH}}-\sigma$ Relation Right
Sylvain	Veilleux	University of Maryland		GO	Coordinated Far-Ultraviolet and Radio Observations of the Feedback Engine in Quasar Mrk 231
Jonelle	Walsh	Texas A & M University		GO	Addressing a Bias in the Galaxies with Black Hole Mass Measurements
Jessica	Werk	University of Washington		GO	Tracing Gas Flows from Halo to Disk: Observing the Milky Way's Galactic Fountain
Andrew	Wetzel	University of California – Davis		AR	Understanding the Physics of Gas Stripping and Star-Formation Quenching of the Satellite Dwarf Galaxies in the Local Group
Thomas	Wevers	Radboud Universiteit Nijmegen	ESA	GO	ToO Observations of Fast-Evolving Tidal Disruption Events
Tommy	Wikind	Catholic University of America		GO	Imaging the Lenses in the Quintuple Gravitational Lens PMN J0134-0931
Gillian	Wilson	University of California – Riverside		GO	The GOGREEN Survey: The Relationship between Quenching, Morphological Transformation, and Size Growth of Satellite Galaxies
Gregory	Wirth	Battelle		AR	What Drives the Evolution of Luminous Compact Blue Galaxies in Clusters vs. the Field?
Aida	Wofford	Universidad Nacional Autónoma de México, Obs. Astron. Nac.		GO	Stars and Gas in the Most Metal-Deficient Galaxies in the Universe
Kenneth	Wong	National Astronomical Observatory of Japan (NAOJ)		GO	<i>Hubble</i> Imaging of the Eye of Horus, a Double Source Plane Gravitational Lens

# Accepted Proposals

Gabor	Worseck	Max-Planck-Institut für Astronomie, Heidelberg	ESA	GO	Probing He II Reionization at $z > 3.5$ with Resolved He II Lyman- $\alpha$ Forest Spectra
Hassen	Yesuf	University of California – Santa Cruz		AR	Interpreting <i>Hubble</i> UV Spectra of Galactic Winds Using Radiative Transfer of Hydrodynamic Galaxy Simulations in yt
Fakhri	Zahedy	University of Chicago		GO	Resolving the Multiphase ISM of an Elliptical Galaxy at $z \sim 0.4$
Dennis	Zaritsky	University of Arizona		GO	Does Globular Cluster Formation Precede Galaxy Formation?
Yong	Zheng	Columbia University in the City of New York		GO	Mapping Gas Flows from the Disk to the Circumgalactic Medium

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## **Planetary Programs**

Jessica	Agarwal	Max Planck Institute for Solar System Research	ESA	GO	Orbital Period and Formation Process of the Exceptional Binary Asteroid System 288P
Tracy	Becker	Southwest Research Institute		GO	Stellar Occultation by Saturn's Rings in the UV
Tracy	Becker	Southwest Research Institute		GO	Constraining the Surface Composition of Europa with Spatially Resolved Mid-UV Spectra
Zach	Berta-Thompson	University of Colorado at Boulder		GO	The M Dwarf UV Spectra Irradiating Nearby Transiting Terrestrial Planets
Dolon	Bhattacharyya	Boston University		GO	Imaging the Extended Hot Hydrogen Exosphere at Mars to Determine the Water Escape Rate
Dolon	Bhattacharyya	Boston University		GO	Calibrating ACS-SBC Using STIS at Lyman- $\alpha$ (121.567 nm)
Vincent	Bourrier	Observatoire de Genève	ESA	GO	Search for an Evaporating Ocean on the Super-Earth HIP 116454b
Brendan	Bowler	University of Texas at Austin		GO	Rotation Periods and Cloud Dynamics of Directly Imaged Exoplanets
Christopher	Burke	SETI Institute		GO	Completing <i>Kepler</i> 's Mission to Determine the Frequency of Earth-like Planets
Kerri	Cahoy	Massachusetts Institute of Technology		GO	Imaging the Predicted Asteroid Belt Analogue around Epsilon Eridani
Ludmila	Carone	Max-Planck-Institut für Astronomie, Heidelberg	ESA	GO	Now You See Me—the WASP-117b Version
Elodie	Choquet	Jet Propulsion Laboratory		GO	Debris Disk Dust Characterization through Spectral Types: Deep Visible-Light Imaging of Nine Systems
Knicole	Colon	NASA Goddard Space Flight Center		GO	The KELT-11b Opportunity: Measuring the Atmospheric Water Abundance for a Sub-Saturn-Mass Planet around a Metal-Rich Star
Imke	de Pater	University of California – Berkeley		GO	Giant Impacts on Giant Planets
Jean-Michel	Desert	Universiteit van Amsterdam	ESA	GO	The First Near-Infrared Reflectance Spectrum of an Exoplanet
Tom	Evans	University of Exeter	ESA	GO	An Exoplanet with a Stratosphere: Seeking the Unknown Absorber
Tom	Evans	University of Exeter	ESA	GO	A Global Map of Thermal Inversions for an Ultra-Hot Planet
Jay	Farihi	University College London	ESA	GO	A Detailed Study of Rocky Planetary Material in the Hyades
Luca	Fossati	Space Research Institute, Austrian Academy of Sciences	ESA	GO	NUV Transit Spectroscopy of HD 189733b: Measuring the Mass-Loss and Ionization State of a Prototypical Escaping Atmosphere
Kevin	France	University of Colorado at Boulder		GO	A <i>Hubble</i> Spectroscopic Study of Protoplanetary Disk Abundances: CO/H <sub>2</sub> Conversion Factors and Absolute Abundances for <i>Webb</i>
Richard	French	Wellesley College		GO	Unmasking the Dark Side of Iapetus
Boris	Gänsicke	The University of Warwick	ESA	SNAP	Extreme Evolved Solar Systems (EESS)

# Accepted Proposals

Carol	Grady	Eureka Scientific Inc.		GO	The Nature of the Star-Grazing Bodies in a System at the Age of the Late Heavy Bombardment
Will	Grundy	Lowell Observatory		GO	Density of Transneptunian Object 229762 2007 UK126
Bryan	Holler	Space Telescope Science Institute		GO	The Rotation Period, Orbit, and Mass of Eris' Satellite Dysnomia
Edward	Jenkins	Princeton University		AR	An Archival Study of Atomic Constituents in Four Edge-on Debris Disk Systems
David	Jewitt	University of California – Los Angeles		AR	Disintegrating Comet 73P
David	Jewitt	University of California – Los Angeles		GO	Active Asteroids Target of Opportunity
David	Jewitt	University of California – Los Angeles		GO	Phaethon Near Earth
David	Jewitt	University of California – Los Angeles		SNAP	Centaurs and Activity beyond the Water Sublimation Zone
Christopher	Johns-Krull	Rice University		GO	A Survey for Molecular Hydrogen Emission around Stars Forming Terrestrial Planets
Daniel	Jontof-Hutter	University of the Pacific		GO	The Atmosphere of an Extremely Low-Density Super-Earth-Mass Planet
Paul	Kalas	University of California – Berkeley		GO	Validating Early Stellar Encounters as the Cause of Dynamically Hot Planetary Systems
J.	Kavelaars	National Research Council of Canada		GO	Enabling Physical Studies of the Kuiper Belt via <i>Hubble</i> Tracking Observations of Close Fly-By Targets for the <i>New Horizons</i> Spacecraft
Laura	Kreidberg	Harvard University		GO	Caught Red-Handed: A Novel Search for the Culprit behind Thermal Inversions in Exoplanet Atmospheres
Laura	Kreidberg	Harvard University		GO	A Study of the UV Environment for Three Small Planets Transiting a Nearby M-Dwarf
Alain	Lecavelier des Étang	CNRS, Institut d'Astrophysique de Paris	ESA	GO	Metals from Deep Atmosphere to Exosphere in Hot-Jupiters
R. O.	Loyd	University of Colorado at Boulder		GO	Investigating an SPI and Measuring Baseline FUV Variability in the GJ 436 Hot-Neptune System
Carlo	Manara	European Space Agency – ESTEC	ESA	GO	Spectroscopic Characterization of a Newly Detected Young Planet Right Outside a Circumbinary Transition Disk
Carl	Melis	University of California – San Diego		GO	Is SDSS J195750.83+340404.4 Accreting a Planetary Core?
Maxwell	Millar-Blanchaer	Jet Propulsion Laboratory		GO	Resolving the Late Planet Formation Stages around Young M-Stars
Pippa	Molyneux	Southwest Research Institute		GO	The UV Reflectance of Patroclus: Exploring the Surface Composition and Origins of Jupiter Trojans
Keith	Noll	NASA Goddard Space Flight Center		GO	Orbit of a Resolved Trojan Binary
Keith	Noll	NASA Goddard Space Flight Center		GO	Slow Rotating Trojans: Tidally Synchronized Binaries?
Keith	Noll	NASA Goddard Space Flight Center		GO	Deep Search for Satellites Around the Lucy Mission Targets
Alex	Parker	Southwest Research Institute		GO	The Moons of Kuiper Belt Dwarf Planets Makemake and 2007 OR10
Vivien	Parmentier	University of Arizona		GO	Cloudy Solutions to the Anomalous Emission of HD 80606b
Carl	Schmidt	Boston University		GO	Extreme Doppler Shifting of Io's Neutral Jets
Scott	Sheppard	Carnegie Institution of Washington		GO	A Satellite Search of a Newly Discovered Dwarf Planet
David	Sing	University of Exeter	ESA	GO	How Small and How High? Enabling UV Exoplanet Cloud and Exosphere Science with WFC3/UVIS
Karl	Stapelfeldt	Jet Propulsion Laboratory		GO	Tracing Interactions of a Protoplanet with its Circumstellar Disk

# Accepted Proposals

Alex	Teachey	Columbia University in the City of New York		GO	Validating the Presence of a Moon Orbiting Kepler-1625b
Cristina	Thomas	Planetary Science Institute		GO	UV Spectroscopy of <i>Lucy</i> Mission Targets
Anne	Verbiscer	The University of Virginia		GO	The Pluto System in the Post- <i>New Horizons</i> Era: Opposition Effects, Rotations, and Orbital Stability
Jason	Wang	University of California – Berkeley		GO	Probing the Young Circumplanetary Environment of Beta Pic b during Transit Egress
David	Wilson	The University of Warwick	ESA	GO	Post Common Envelope Binaries as Probes of M-Dwarf Stellar Wind and Habitable Zone Radiation Environments
John	Wisniewski	University of Oklahoma – Norman Campus		GO	Super-Keplerian Motions in the AU Mic Circumstellar Debris System
Ian	Wong	California Institute of Technology		GO	An Observational Test of the Dynamical Instability Hypothesis in the Solar System
Siyi	Xu	European Southern Observatory – Germany	ESA	GO	Actively Disintegrating Astroids around a White Dwarf
Quan-Zhi	Ye	California Institute of Technology		GO	Active Asteroid (3200) Phaethon during its Unusually Close Approach to Earth
Marie	Ygouf	California Institute of Technology		GO	Revealing the Birth Environment of Circumbinary Exoplanets with STIS BAR5
Yifan	Zhou	University of Arizona		AR	Unleashing the Charges: An Improved Reduction of Key Exoplanet Datasets and a Tool for Ramp Effect Correction

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## ***Galactic Programs***

Marcel	Agüeros	Columbia University in the City of New York		GO	A UV Spectroscopic Survey of Periodic M Dwarfs in the Hyades
Marcel	Agüeros	Columbia University in the City of New York		SNAP	A UV Spectroscopic Snapshot Survey of Low-Mass Stars in the Hyades
Alessandra	Aloisi	Space Telescope Science Institute		GO	The Epoch of the First Star Formation in the Closest Metal-Poor Blue Compact Dwarf Galaxy UGC 4483
Julian	Alvarado Gomez	Smithsonian Institution Astrophysical Observatory		GO	Weaving the History of the Solar Wind with Magnetic Field Lines
Jennifer	Andrews	University of Arizona		GO	Dwarfs and Giants: Massive Stars in Little Dwarf Galaxies
Iair	Arcavi	University of California – Santa Barbara		GO	What Type of Star Made the One-of-a-kind Supernova iPTF14hls?
Thomas	Ayres	University of Colorado at Boulder		GO	Ecliptic-Poles Stellar Survey (EclipSS)
Nate	Bastian	Liverpool John Moores University	ESA	GO	Pinpointing the Onset of Multiple Populations in Globular Clusters
Nate	Bastian	Liverpool John Moores University	ESA	GO	Extending the Search for Multiple Populations in Massive Intermediate-Age Clusters
Edo	Berger	Harvard University		GO	Fine-Tuned Search for Kilonova Emission in a Short $\gamma$ -ray Burst: Implications for the Progenitors, Advanced LIGO, and $r$ -Process Nucleosynthesis
Gurtina	Besla	University of Arizona		AR	New Models of the Milky Way's Dark Matter Distribution for the Era of High-Precision Astrometry
William	Blair	The Johns Hopkins University		GO	Characterizing the Supernova Remnant Population of the Fireworks Galaxy, NGC 6946
John	Blakeslee	NRC Herzberg Institute of Astrophysics		GO	MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors
Peter	Blanchard	Harvard University		GO	Constraining the Late-Time Light Curve Behavior of Three Diverse Superluminous Supernovae
Howard	Bond	The Pennsylvania State University		AR	Archival Investigation of Outburst Sites and Progenitors of Extragalactic Intermediate-Luminosity Mid-IR Transients
Alexander	Brown	University of Colorado at Boulder		GO	Inner Disk Structure and Transport Mechanisms in the Transitional Disk around T Cha

# Accepted Proposals

Jeffrey	Carlin	Large Synoptic Survey Telescope		GO	Testing Galaxy Evolution in Unexplored Environments: the First Faint Dwarf Satellites of Local Volume LMC Analogs
Roger	Cohen	Space Telescope Science Institute		GO	Opening the Window on Galaxy Assembly: Ages and Dynamics of Inner Milky Way Globular Clusters
Michelle	Collins	University of Surrey	ESA	GO	Unveiling the Formation of Andromeda XIX—A Uniquely Diffuse Local Group Galaxy
Denija	Crnojević	Texas Tech University		GO	Unveiling the Extreme Nature of the Hyper-Faint Galaxy Virgo I
Jeffrey	Cummings	The Johns Hopkins University		GO	Boron in Hyades F Dwarfs—Tracing Deep Into the Li–Be Gap
Chris	D'Andrea	University of Pennsylvania		GO	Revealing the Environmental Dependence in Superluminous Supernovae Diversity
Nicola	Da Rio	University of Florida		GO	Towards High-Accuracy Tests on the Substellar IMF in Young Clusters—A Survey in NGC 2024
Matt	Darnley	Liverpool John Moores University	ESA	GO	The Super-Remnant of the Recurrent Nova M31N 2008–12a—A Signpost to Type Ia Supernovae?
Alexandre	David-Uraz	University of Delaware		GO	Mapping the Structure and Kinematics of NGC 1624-2's Giant Magnetosphere
Kris	Davidson	University of Minnesota – Twin Cities		GO	Eta Carinae's Change of State: The End Game
Annalisa	De Cia	European Southern Observatory – Germany	ESA	GO	What is the Metallicity of the Cool ISM in our own Galaxy?
Cody	Dirks	Northwestern University		GO	Probing CO-dark Gas within the Planck Galactic Cold Clumps
Tuan	Do	University of California – Los Angeles		GO	Building an Astrometric Reference Frame for Tests of General Relativity with Stellar Orbits at the Galactic Center with <i>Hubble</i> and <i>Gaia</i>
Trent	Dupuy	University of Texas at Austin		GO	The Coolest Sample of Brown Dwarf Dynamical Masses
Meredith	Durbin	University of Washington		AR	Calibrating the Near-Infrared Tip of the Red Giant Branch with Multiwavelength Photometry
Scott	Engle	Villanova University		GO	The Secret Lives of Cepheids: Completing the Picture with <i>Hubble</i> -COS Observations of the Nearest Classical Cepheids, Polaris and $\delta$ Cephei
Catherine	Espaillet	Boston University		GO	Connecting Mass Accretion and Ejection in Pre-Main-Sequence Stars
Annette	Ferguson	University of Edinburgh, Institute for Astronomy	ESA	GO	The Globular Cluster Systems of Local Group Dwarf Galaxies
Francesco	Ferraro	Università di Bologna	ESA	GO	Searching for Fossil Fragments of the Galactic Bulge Formation Process
Francesco	Ferraro	Università di Bologna	ESA	GO	Pushing Ahead the Frontier of the Globular Cluster Dynamics: The 3D View of the Velocity Space
Robert	Fesen	Dartmouth College		GO	A <i>Hubble</i> Survey of Cassiopeia A's Reverse Shock, High-Velocity Ejecta, and Shocked Clouds of Pre-SN Mass Loss
Alex	Filippenko	University of California – Berkeley		SNAP	Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae: Cycles 25 and 26
Gaston	Folatelli	Universidad Nacional de La Plata (UNLP)		GO	The Progenitor of Supernova 2016gkg
Ryan	Foley	University of California – Santa Cruz		GO	Ultra-Rapid UV Spectroscopy of an Interacting Supernova Discovered by <i>K2</i>
Clemence	Fontanive	Royal Observatory Edinburgh	ESA	GO	Looking for the Coldest Atmospheres: a Search for Planetary Mass Companions around T and Y Brown Dwarfs
Claes	Fransson	Stockholm University	ESA	GO	Imaging the Transition of SN 1987A to SNR 1987A
Jim	Fuller	California Institute of Technology		AR	Pre-supernova Properties of Progenitors Detected by <i>Hubble</i>
Boris	Gänsicke	The University of Warwick	ESA	GO	The Classical Nova Hibernation Scenario: A Definitive Confirmation
Peter	Garnavich	University of Notre Dame		GO	A Star at the Limit? – Direct Mass Measurement of the White Dwarf in Nova Herculis 1991

# Accepted Proposals

Peter	Garnavich	University of Notre Dame		GO	Watching Supernovae Explode: The <i>K2</i> Supernova Experiment
Karoline	Gilbert	Space Telescope Science Institute		GO	Securing <i>Hubble</i> 's UV Legacy in the Local Volume: Probing Star Formation and the Interstellar Medium in Low-Mass Galaxies
Paul	Goudfrooij	Space Telescope Science Institute		AR	Looking for Photometric Signatures of Fast Rotation in Intermediate-Age Star Clusters in the Magellanic Clouds
Johnny	Greco	Princeton University		GO	Weighing Ultra-Diffuse Galaxies: Bridging the Environmental Gap
Michael	Gregg	University of California – Davis		AR	Serendipitous WFC3 Infrared Color Magnitude Diagrams of NGC 4472
Michael	Gregg	University of California – Davis		GO	Resolving Multiple Stellar Populations in G1
Cecile	Gry	Laboratoire d'Astrophysique de Marseille	ESA	GO	First Exploration of a Single Thermal Interface between the Two Dominant Phases of the Interstellar Medium
Hans	Günther	Massachusetts Institute of Technology		GO	Testing Our Scenario of a Failed Wind for TW Hya
Graham	Harper	University of Colorado at Boulder		GO	Collecting the Missing Piece of the Puzzle: The Wind Temperatures of Arcturus (K2 III) and Aldebaran (K5 III)
Patrick	Hartigan	Rice University		GO	Proper Motions, Shear, Mass-Loss Rates and C-Shocks in the HH 7-11 Jet
Marianne	Heida	California Institute of Technology		GO	Identifying the Donor Star of the Most Extreme ULX Pulsar
Griffin	Hosseinzadeh	Las Cumbres Observatory Global Telescope Network		GO	The Mystery of a Supposed Massive Star Exploding in a Brightest Cluster Galaxy
Roberta	Humphreys	University of Minnesota – Twin Cities		GO	The Recent Mass-Loss History of the Red Hypergiant VY CMa
Myoungwon	Jeon	University of Arizona		AR	The Role of Environment in the SFHs and Gaseous Evolution of Ultra-Faint Dwarf Galaxies across Cosmic Time
Saurabh	Jha	Rutgers the State University of New Jersey		GO	Left Behind: A Bound Remnant from a White Dwarf Supernova?
Simon	Joyce	University of Leicester	ESA	GO	Resolving the Discrepancy in the Mass Determination from the Gravitational Redshift of Sirius B
Jason	Kalirai	Space Telescope Science Institute		GO	Linking Dynamical and Stellar Evolution in the Metal-Poor Globular Cluster M92
Mansi	Kasliwal	California Institute of Technology		GO	Unveiling Curious Infrared Transients with <i>Hubble</i> and <i>Webb</i>
Mansi	Kasliwal	California Institute of Technology		GO	Verifying a Candidate Counterpart to Gravitational Waves
Chris	Kochanek	The Ohio State University		GO	Confirming the Formation of a Black Hole
Shrinivas	Kulkarni	California Institute of Technology		GO	Caught in the Act: UV Spectroscopy of the Ejecta-Companion Collision from a Type Ia Supernova
Søren	Larsen	Radboud Universiteit Nijmegen	ESA	GO	Initial Conditions of Multiple Populations in the Dynamically Most Pristine Globular Cluster, NGC 2419
Andrew	Levan	The University of Warwick	ESA	GO	Rapid Observations of the First Gravitational Wave Counterparts
Andrew	Levan	The University of Warwick	ESA	GO	From the Longest GRBs to the Brightest Supernovae
Andrew	Levan	The University of Warwick	ESA	SNAP	The Counterparts and Environments of Magnetars
Jeffrey	Linsky	University of Colorado at Boulder		AR	Model Atmospheres and Spectral Irradiance Library of the Exoplanet Host Stars Observed in the MUSCLES Survey
Jamie	Lomax	University of Washington		GO	High Fidelity Imaging of a Red Supergiant's Circumstellar Material
Ragnhild	Lunnan	California Institute of Technology		GO	Resolving the Connection Between Superluminous Supernovae and Star Formation in Dwarf Galaxies
Derck	Massa	Space Science Institute		GO	Origin of the High-Velocity Gas in NGC 6231

# Accepted Proposals

Kristen	McQuinn	University of Texas at Austin		GO	The Leoncino Dwarf: The Lowest Metallicity Star-Forming Galaxy in the Nearby Universe
Tom	Megeath	University of Toledo		GO	The 6 pc DASH: A WFC3 1.6 micron Survey of the Orion Integral Shaped Filament
Brian	Metzger	Columbia University in the City of New York		AR	The Role of Shocks in the Appearance and Aftermath of Stellar Mergers and Type II In Supernovae
Matteo	Monelli	Instituto de Astrofisica de Canarias	ESA	GO	A Challenge to dSph Formation Models: Are the Most Isolated Local Group dSph Galaxies Truly Old?
Jeremiah	Murphy	Florida State University		AR	Constraining Core-collapse Supernova Theory Predictions with 400 Progenitor Masses
Peter	Nemeth	Astroserver.org	ESA	GO	Constraining the Binary Properties of 2M1938+4603 with Irradiated Stellar Atmospheres
Brunella	Nisini	INAF, Osservatorio Astronomico di Roma	ESA	GO	Probing Jets from Young Embedded Sources
Jason	Nordhaus	Rochester Institute of Technology		AR	Unveiling Hidden Companions in Post-AGB Stars: 3D-Simulations of Evolved Star Binaries
Lida	Oskinova	Universität Potsdam	ESA	GO	The Low-Metallicity Starburst NGC 346: Massive-Star Population and Feedback
Anna	Pala	The University of Warwick	ESA	GO	Unveiling the Mysterious Nature of the Cataclysmic Variable SDSS J153817.35+5123238.0
Ruth	Peterson	SETI Institute		GO	Astrophysics Meets Atomic Physics: Fe I Line Identifications and Templates for Old Stellar Populations from Warm and Hot Stellar UV Spectra
Imants	Platais	The Johns Hopkins University		GO	The Low-Mass Stellar Initial Mass Function: Ultra-Faint Dwarf Galaxies Revisited
John	Raymond	Smithsonian Institution Astrophysical Observatory		GO	Instabilities and Turbulence in a Cygnus Loop Shock Front
Bo	Reipurth	University of Hawaii		GO	Luminous Herbig-Haro Objects from a Massive Protostar: The Unique Case of HH 80/81
Megan	Reiter	University of Michigan		AR	Do Stellar Clusters Form Fewer Binaries? Using Moderate Separation Binaries to Distinguish between Nature and Nurture
Adam	Riess	The Johns Hopkins University		GO	DASHing through the LMC and M31: Towards 1% Distances
Ian	Roederer	University of Michigan		AR	A New Test of Copper and Zinc Abundances in Late-Type Stars Using Cu II and Zn II lines in the Near-Ultraviolet
Elena	Sabbi	Space Telescope Science Institute		GO	The fate of NGC 602, an Intense Region of Star-Formation in the Wing of the SMC
Raghvendra	Sahai	Jet Propulsion Laboratory		GO	Star-Formation in Free-Floating Evaporating Gaseous Globules
Raghvendra	Sahai	Jet Propulsion Laboratory		GO	High-Speed Bullet Ejections during the AGB to Planetary Nebula Transition: A Study of the Carbon Star V Hydrae
Kailash	Sahu	Space Telescope Science Institute		GO	Detecting Isolated Black Holes through Astrometric Microlensing
David	Sand	Texas Tech University		GO	The Origin of Ultra-Faint Galaxies
David	Sand	Texas Tech University		GO	An Emerging Population of Stripped, but Isolated, Stellar Systems in the Virgo Cluster
Adam	Schneider	Arizona State University		GO	Unobstructed Observations of the Intrinsic Lyman- $\alpha$ Emission of Low-Mass Stars
Christian	Schneider	Universität Hamburg, Hamburger Sternwarte	ESA	GO	The Extremes of Protostellar Jets: Resolving the Hot Jet of Sz 102
Edward	Sion	Villanova University		GO	The SN Ia Candidate T Pyxidis: Is the Accretion Rate Declining?
Linda	Smith	Space Telescope Science Institute	ESA	GO	Very Massive Stars in the Local Universe
Nathan	Smith	University of Arizona		GO	Imaging Shock Fronts in the Outer Ejecta of Eta Carinae
Roberto	Soria	Curtin University		GO	Age and Mass of the Star Cluster around the Intermediate-Mass Black Hole HLX-1



# Accepted Proposals

Jan	Staff	University of the Virgin Islands		AR	3D Magneto-Hydrodynamic Simulations of Disk Winds from Massive Protostars
Letizia	Stanghellini	National Optical Astronomy Observatory		SNAP	Carbon in Dusty, Compact Galactic Planetary Nebulae: A Study of AGB Evolution and Recycling in the Milky Way
Nao	Suzuki	Institute for Physics and Mathematics of the Universe		GO	Perfect Blackbody Spectra for <i>Webb</i> and Next Generation UV-Opt-IR Standard Star Network
Nial	Tanvir	University of Leicester	ESA	GO	<i>r</i> -process Kilonovae, Short-Duration GRBs, and EM Counterparts to Gravitational Wave Sources
Schuyler	Van Dyk	California Institute of Technology		GO	Finally, the Progenitor of the Type Ib iPTF13bvn
Schuyler	Van Dyk	California Institute of Technology		GO	The Stellar Origins of Supernovae
Laura	Watkins	Space Telescope Science Institute		AR	A Unified Picture of Mass Segregation in Globular Clusters
Dan	Watson	University of Rochester		GO	The Jets and Shocks of NGC 1333: A Large WFC3 Mosaic of [Fe II] and H I Line Emission
Daniel	Weisz	University of California – Berkeley		AR	Measuring the High-Mass IMF in Low-Metallicity Dwarf Galaxies
Brian	Williams	Space Telescope Science Institute		GO	Measuring the Deceleration of a Supernova Remnant Shock Wave Using High-Precision Astrometry
Brian	Wood	Naval Research Laboratory		GO	Characterizing the Winds of M-Dwarf Stars
Allison	Youngblood	University of Colorado at Boulder		GO	Measuring the Intrinsic Lyman- $\alpha$ Profiles of High-Velocity G, K, and M dwarfs

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## **AR Legacy Programs**

Gary	Ferland	University of Kentucky		AR	Plasma Simulations that Meet the Challenges of <i>Hubble</i> and <i>Webb</i> Active Nuclei and Starburst Observations
Garth	Illingworth	University of California – Santa Cruz		AR	Completing the Legacy of <i>Hubble</i> 's Wide/Deep Fields: An Aligned Complete Dataset of 1220 Orbits on the GOODS-N/CANDELS-N Region

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## **Large Programs**

Luigi	Bedin	Osservatorio Astronomico di Padova	ESA	GO	The End of the White Dwarf Cooling Sequence of NGC 6752
David	Bowen	Princeton University		GO	How Do Inflows and Outflows from Galaxies Create Their Inner Circumgalactic Medium?
Hsiao-Wen	Chen	University of Chicago		GO	COS Ultraviolet Baryon Survey (CUBS)
Ian	Crossfield	University of California – Santa Cruz		GO	The Atmospheric Diversity of Mini-Neptunes in Multi-Planet Systems
Julien	de Wit	Massachusetts Institute of Technology		GO	Collecting the Puzzle Pieces: Completing <i>Hubble</i> 's UV+NIR Survey of the TRAPPIST-1 System ahead of <i>Webb</i>
Adam	Kraus	University of Texas at Austin		GO	The IMF to Planetary Masses across the Milky Way
Adam	Riess	The Johns Hopkins University		GO	The Hubble Constant to 1%: Physics beyond $\Lambda$ CDM
Alice	Shapley	University of California – Los Angeles		GO	The Path Forward for Lyman-Continuum Studies at $z \sim 3$
Michele	Trenti	University of Melbourne		GO	The Brightest Galaxies in the First 700 Myr: Building <i>Hubble</i> 's Legacy of Large-Area IR Imaging for <i>Webb</i> and Beyond

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## **Treasury Programs**

# Accepted Proposals

Cynthia	Froning	University of Texas at Austin		GO	The Mega-MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-Mass Exoplanetary Systems
Rolf	Jansen	Arizona State University		GO	UV-Visible Imaging of the <i>Webb</i> NEP Time-Domain Field: The <i>Best Always Accessible to Webb</i> Extragalactic Survey Field
Charles	Steinhardt	University of Copenhagen, Niels Bohr Institute	ESA	GO	BUFFALO

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**Pure Parallel Programs**

David	Trilling	Northern Arizona University		GO	A Pure Parallel Survey of the Colors of Small Trans-Neptunian Objects to Constrain the Collisional History of the Outer Solar System
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