Spitzer Cycle-13 Program Selection

Cycle-13 Overview

- **115 proposals received – 39,795 hours!**
  - *C11 157 proposals – 41,970 hours, C10 137 proposals – 31,817 hours*
- **Hours Solicited**
  - *12,000 priority 1 + up to 2000 hours of priority 2+3*
    - Most time ever solicited in one proposal call, up to two years of observations
    - Cycle-6: Original Exploration Science
      - *10,000 hrs available, 38,050 hrs requested*
- **One-third are preparing for JWST follow-up**
- **New for Cycle-13**
  - *Frontier Legacy proposals > 2000 hours*

Selection Overview

- **Strategy worked to enable mission-sized programs**
  - *3 of 7 Frontier Legacy programs selected*
  - ***Largest is 5286 hours – 9 months of time***

    "The Euclid/WFIRST Spitzer Legacy Survey"

- **14,753 hours total (25-26 months)**
  - *12,005 hours of scheduling priority 1 science*
  - *2,748 hours of scheduling priority 2 science*

    (priority 2 in cycle-13 is no longer lower rated science, just easy to schedule)

Science Supporting Future NASA Missions

- **20 selected programs totaling 5644 hours are supporting preparation of JWST ERS, Cycle-1, or GTO programs**

- **2 selected programs totaling 5986 hours support Euclid/WFIRST science**

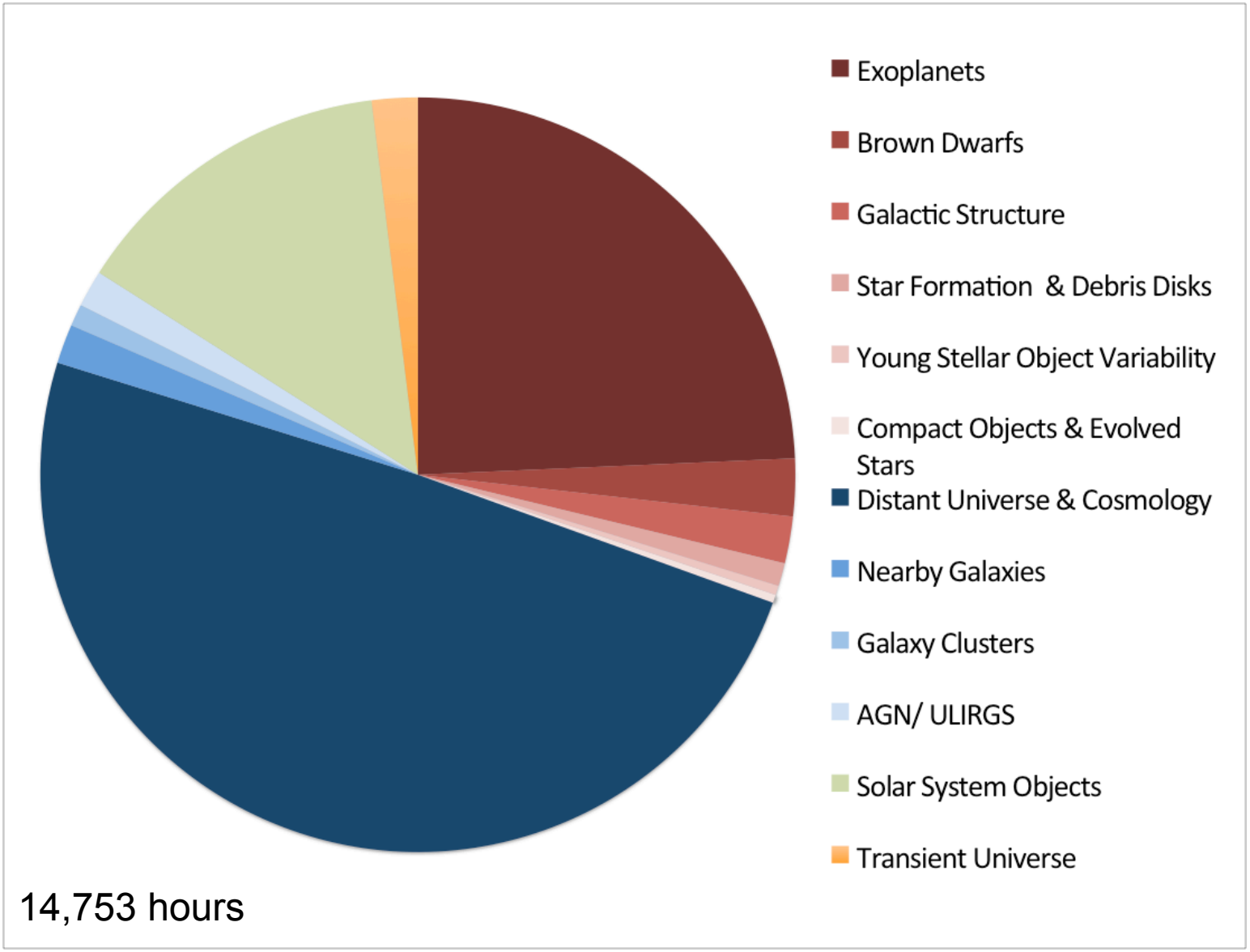
Program Size Distribution

	Proposed		Selected	
	#	Hours	#	Hours
Frontier Legacy	7	23,708.6	3	8,536.0
Exploration Science	9	9,594.3	6	3,333.2
Large GO	22	4,634.2	14	2,391.5
Sub-total	*38*	*37,937*	***23***	***14,261***

	#	Hours	#	Hours
Med GO	46	1,713.6	16	468.0
Small GO	31	144.5	10	24.4
Sub-total	*77*	*1,858*	***26***	***492***

Total	115	39,795	**49**	**14,753**

Broad Range of Science



14,753 hours

Frontier Legacy Programs

PID	Science Category	Hours	PI	Institution
13058	High-z Galaxies	5286	Peter Capak	IPAC-Caltech
The Euclid/WFIRST Spitzer Legacy Survey				
13006	NEOs	1750	David Trilling	NAU
NEOLegacy: The ultimate Spitzer survey of Near Earth Objects				
13094	High-z Galaxies	1500	Ivo Labbe	Leiden
Completing the Legacy of Spitzer/IRAC over COSMOS				

- **Two extragalactic surveys and a survey of near earth objects were selected from the seven submitted Frontier Legacy proposals**

Exploration Science & Large Programs

PID	Science Category	Hours	PI	Institution
13067	Exoplanets	1000	Michael Gillon	Liege
13005	Exoplanets	700	Andrew Gould	Ohio State
13038	Exoplanets	660	Kevin Stevenson	Chicago
13044	Exoplanets	554	Drake Deming	Maryland
13052	Exoplanets	360	Michael Werner	JPL
13053	Time Domain	285.7	Mansi Kasliwal	Caltech
13012	Brown Dwarfs	276	J. Davy Kirkpatrick	IPAC
13116	Comets	268.7	Michael Kelley	Maryland
13042	High-z Galaxies	247.9	Asantha Cooray	UC Irvine
13118	AGN	205	Varoujan Gorjian	JPL
13104	High-z Galaxies	200	Daniel Perley	Niels Bohr Inst.
13117	Galactic Structure	198.8	Robert Benjamin	Wisconsin, Whitewater
13096	Local Group	172.1	Greg Sloan	Cornell
13140	Exoplanets	131.9	Laura Kreidberg	Harvard
13014	Debris Disks	120	Kate Su	Arizona
13054	High-z Clusters	119.1	Nina Hatch	Nottingham
13037	Exoplanets	106.3	Andrew Mann	Texas
13010*	YSOs	59.2	Tom Megeath	Toledo
13027*	Compact Objects	48	Giovanni Fazio	SAO
13145*	KBOs	12	Noemi Pinilla-Alonso	UCF

* These programs were submitted as Exploration Science and Large programs but approved with smaller allocations.

Joint Hubble/Chandra Proposals

- **12 joint proposals submitted, 11 HST & 1 CXO**
  - *60 orbits and 173 ksecs requested*
- **4 joint HST and 1 joint Chandra programs selected**

PID	PI	Spitzer Hours	Orbits / ksecs	Title
13009	Boyer	4.2	1 orbit	A Search for Stellar Dust Production in Leo P, a Nearby Analog of High Redshift Galaxies
13022	Kochanek	1.7	2 orbits	Dust to Dust: Monitoring the Evolution of a New Class of Self-Obscured Transients
13125	Romanowsky	20.4	6 orbits	Ultra-diffuse Galaxies in Clusters and the Field: Masses and Stellar Populations
13140	Kreidberg	131.9	3 orbits	Clouds in the Forecast? A Joint Spitzer and HST Investigation of Clouds and Hazes for Two Exo-Neptunes
13027	Fazio	48	172.8 ks	Diagnosing the Black Hole Accretion Physics of Sgr A*

Foreign Led Proposals

- **10 priority 1 programs have PIs at foreign institutions**
  - *1 Frontier Legacy*
  - *1 Exploration Science*
  - *2 Large*
  - *6 Medium/Small*

- **Programs total 2914.6 hours**

- **20% of the awarded time**

Submitted/Selected
by Science Category

Science Category	Submitted		Selected	
	Hours	Props	Hours	Props
Our Solar System				
Asteroids	10.4	1	10.4	1
Comets	268.7	1	268.7	1
Kuiper Belt Objects	145.5	1	12	1
Near Earth Objects	2189.6	2	1780	2
Planets & Satellites	172.5	3	0	0
Our Galaxy				
Brown Dwarfs	471.9	6	363.8	4
Compact Objects	148.9	1	48	1
Debris Disks	216.8	10	145.4	4
Evolved Stars	74.5	5	3.8	2
Exoplanets	12182.7	27	3585.7	11
Galactic Structure	295.8	2	295.8	2
Stars & Stellar Pops	164.1	3	0	0
Extragalactic Stars	361.9	4	289.9	2
YSOs	599.6	3	59.2	1
Extragalactic				
AGN/QSOs	530.3	4	231.9	2
Galaxy Clusters	170.1	5	139.5	3
High-z Gals/Cosmol.	19589.3	24	7324.1	8
Nearby Galaxies	362.5	12	194.9	4
ULIRGS	1840.1	1	0	0
Total	**39795.2**	**115**	**14753.1**	**49**