



Spitzer Cycle-14 Proposal Selection Statistics



Overview



- **116 proposals received – 22,123 hours**
 - *~ 6,000 hours available, total oversubscription 3.7*
 - *115 received in Cycle-13 • 39,795 hrs requested • 14,000 awarded*
- **6,009 hours selected**
 - *4,482 hours of scheduling priority 1 science*
 - *1,527 hours of scheduling priority 2 science*
 - *2 additional proposals assigned priority 3*
 - *26% of proposals are led by first-time Spitzer PIs*
- **5,000 hours in large programs, \geq 100 hours**
 - *973 hours in medium programs, 10 – 100 hours*
 - *36 hours in small programs, $<$ 10 hours*



Selections Related to Future NASA Missions (and TESS!)



- **2 TESS follow-up proposals**
 - *650 hours to be defined by new TESS discoveries*
- **17 proposals supporting JWST ERS, GTO programs and Cycle-1 preparation**
- **2 proposals related to WFIRST**
- **1 proposal observing the targets of the Lucy Mission – the first mission to Jupiter’s Trojan asteroids**



Large Programs Selected



PID	PI	Institution	Hours	Priority
TESS Follow-up				
14011	Elisabeth Newton	MIT	100	1
<i>Spitzer's window onto the evolution of young planets</i>				
14084	Ian Crossfield	MIT	550	1
<i>Spitzer Transits of New TESS Planets</i>				
Brown Dwarfs & Exoplanets				
14012	Andrew Gould	Ohio State	350	2
<i>The Galactic Distribution of Planets via Spitzer Microlensing Parallax</i>				
14059	Jacob Bean	Chicago	620	1
<i>Revealing Fact or Fiction in Spitzer Exoplanet Phase Curve Trends</i>				
14128	Jacqueline Faherty	AMNH	591.4	1
<i>The Young and the Restless: Revealing the Turbulent, Cloudy Nature of Young Brown Dwarfs and Exoplanets</i>				
14131	Paulo Miles-Paez	U. Western	1074.7	1
<i>Ultra-cool dwarfs viewed equator-on: surveying the best host stars for biosignature detection in transiting</i>				
Extragalactic Universe				
14017	Marusa Bradac	UC Davis	333.2	1
<i>Relics of Cosmic Dawn</i>				
14045	Mauro Stefanon	Yale	500*	2
<i>COMPLETE2: Completing the Legacy of Spitzer/IRAC over COSMOS</i>				
14061	Joaquin Vieira	Illinois	115.4	1
<i>The SPT+Herschel+ALMA+Spitzer Legacy Survey: The stellar content of high redshift strongly lensed systems</i>				
14081	Anna Sajina	Tufts	488.3	1
<i>Adding the missing piece: Spitzer imaging of the HSC-Deep/PFS fields</i>				
14089	Mansi Kasliwal	Caltech	276.6	2
<i>SPIRITS: SPitzer InfraRed Intensive Transients Survey</i>				

*An additional 500 hours has been selected with scheduling priority 3.



Program Size Distribution

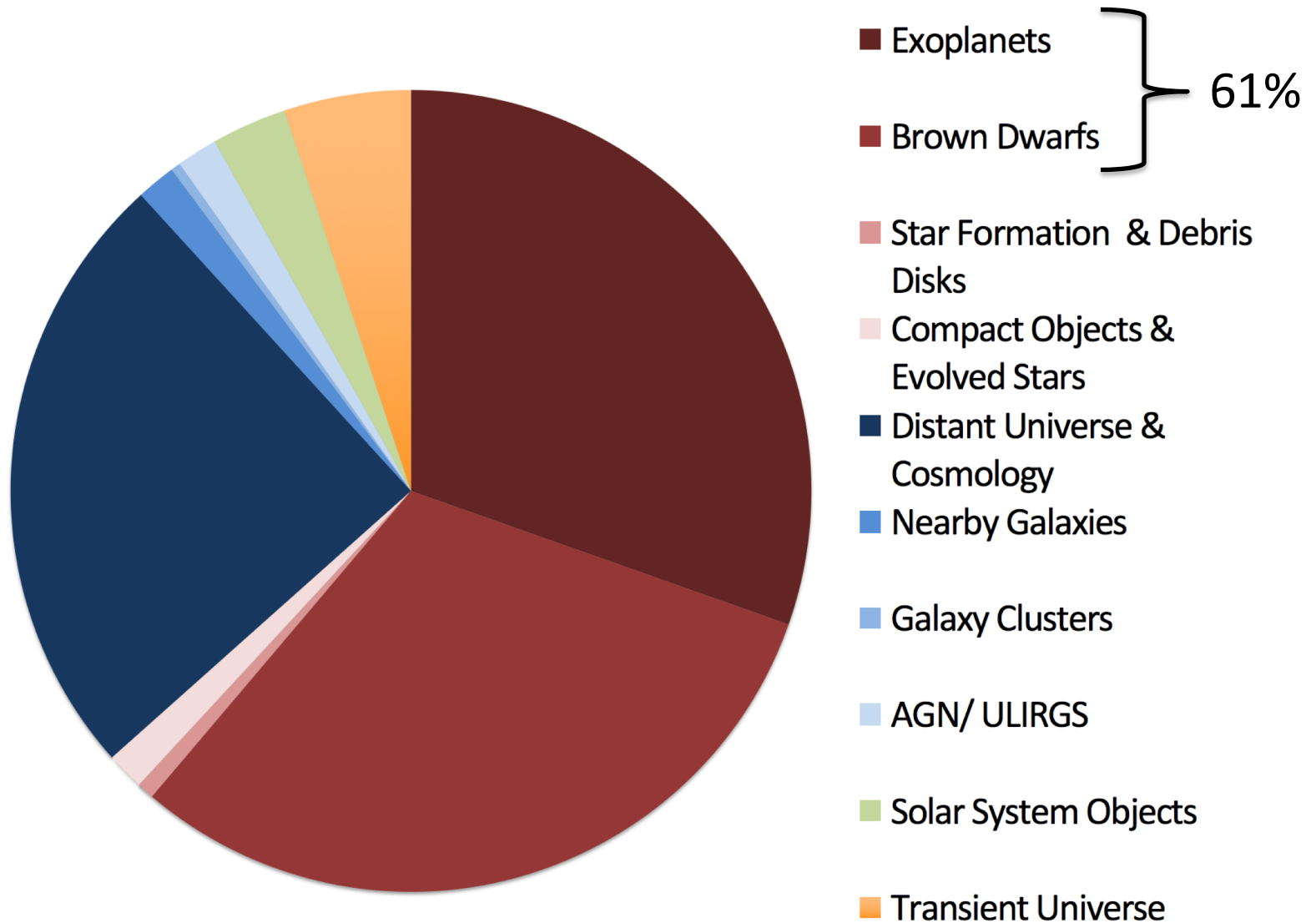


<i>Cycle-14 Total</i>	Proposed		Priority 1		Priority2	
	#	Hours	#	Hours	#	Hours
Large GO > 100 hrs	37	19,706	8	3,873	3	1,127
Med GO 10 - 100 hrs	55	2,318	15	591	12	382
Small GO < 10 hrs	24	99	5	18	7	18
Total	116	22,123	28	4,482	22	1,527

<i>Large GO Breakdown</i>	#	Hours	#	Hours	#	Hours
> 1000	5	6,896	1	1,075	1	500
500 - 1000	11	8,000	3	1,761	0	-
100 - 500	21	4,810	4	1,037	2	627
Total	37	19,706	8	3,873	3	1,127



Range of Science





Submitted/Selected by Science Category



Science Category	Submitted		Selected	
	#	Hours	#	Hours
Our Solar System				
asteroids	4	137.0	3	96.9
comets	2	59.9	1	2.9
NEOs	1	846.7	1	82.8
planets	1	195.4	0	-
<i>Subtotal</i>	8	1,239	5	183
Our Galaxy				
brown dwarfs	14	3,487.2	8	1,850.4
exoplanets	33	7,570.7	10	1,827.0
compact obj/SN	6	125.9	3	91.9
SF/YSOs/debris disks	14	496.3	5	41.6
transients/other gal	7	378.9	4	307.5
<i>Subtotal</i>	74	12,059	30	4,118
Extragalactic				
AGN/ULIRGS	8	2,349.4	2	99.4
clusters	4	165.1	2	23.4
high-z galaxies	11	5,936.6	7	1,489.8
nearby galaxies	11	374.1	4	95.1
<i>Subtotal</i>	34	8,825	15	1,708
Total	116	22,123	50	6,009



Success Rates



- **Large proposals:**
 - *37 submitted, 19,706 hrs / 11 selected, 5,000 hrs*
 - *30% by number, 25% by hours*
- **Med/Small proposals:**
 - *79 submitted, 2,417 hrs / 39 selected, 1,009 hrs*
 - *49% by number, 42% by hours*
- **Priority 1 only: 28 selected, 4,482 hours**
 - *P1: 24% by number, 20% by hours*
- **Foreign-led:**
 - *24 submitted, 3,956 hrs / 9 selected – 1,224 hours*
 - *38% by number, 31% by hours*



Large Proposal Demographics



5000 hours awarded to 11 large programs

- **5 of 11 have first-time Spitzer PIs**
 - *4 largest programs all led by first-time Spitzer PIs*
- **5 of 11 PIs are women**
- **Career status:**
 - *3 post-docs*
 - *4 faculty (1-5 years), 3 faculty (7-9 years), 1 emeritus*
- **Priority 1 only – 8 proposals, 4485 hrs:**
 - *50% of PIs are new, 50% are women*



Future Science



To enable emerging science that could not have been submitted for Cycle-14, Director's Discretionary Time proposals may be submitted through the rest of the mission.

<http://ssc.spitzer.caltech.edu/warmmission/propkit/>