



Spitzer Cycle-10 Program Selection



Cycle-10 Overview



- Nominal Cycle-10 Execution: Dec. 2013 Oct. 2014
- 8 months (4500 hours) of priority 1 time available to schedule
 - Priority 2 and 3 programs also selected
- Exploration Science, Regular GO and Snapshot proposals solicited
- 137 proposals received 31,800 hours requested
 - Oversubscription of 7 highest for the mission
- Proposal Review Process
 - Panel telecons held in September
 - Time Allocation Committee met October 15 16



Scheduling Priorities



• Priority 1

- SSC will endeavor to schedule all priority 1 programs
- Since many are highly constrained, all priority 1 programs will not be completed unless the mission is extended

Priority 2

 These programs will execute in gaps in the schedule where no priority 1 programs are feasible to schedule

Priority 3

 These programs are unlikely to schedule unless gaps develop in the schedule where no priority 1 or 2 programs can schedule or the mission is extended by a few months instead of a full cycle



Programs Selected



4672 hours priority 1

- 3917 hours Exploration Science & Large
- 555 hours Medium & Small
- 200 hours Innovative/High Risk Director's Discretionary Time

1300 hours priority 2

- 1065 hours Exploration Science & Large
- 235 hours Medium & Small

2649 hours priority 3

- 2469 hours Exploration Science & Large
- 180 hours Medium & Small



Exploration Science Programs



PID	Science Category	Hours	Hours - Scheduling Priority			PI, Institution				
		Total	1	2	3					
10015	Extragalatic Stars	646.0	646.0			Kathryn Johnston	Columbia			
SMASH: Spitzer Merger History and Shape of the Galactic Halo										
10042	High-z Galaxies	1650.0	1195.0	455.0		Peter Capak	SSC			
SPLASH: Spitzer Large Area Survey with Hyper-Suprime-Cam										
10076	High-z Galaxies	812.5		200.0	612.5	Pascal Oesch	UCSC			
UI	Ultra-deep IRAC Legacy over GOODS: Earliest Galaxies to the Peak of Cosmic Star-Formation									
10019	High-z Galaxies	726.4	72		726.4	Karina Caputi	Groningen			
SMUVS: Spitzer Matching survey of the UltraVISTA ultra-deep Stripes										
10102	Exoplanets	542.3			542.3	Drake Deming	Maryland			
Eclipses of New Giant Exoplanets										
Totals: 4377.2 1841.0 655.0 1881.2										



DDT Programs



 Two exoplanet proposals, identified as innovative and high risk, were awarded Director's Discretionary time

PID	Science Category	Hou	ırs	DI Institution					
	Science Category	Requested	Awarded	PI, Institution					
10036	Exoplanets	832.0 100.0 Andrew Gou		Andrew Gould	Ohio State				
Spitzer Microlens Planets and Parallaxes									
10127	Exoplanets	246.4	100.0	Daniel Fabrycky	Chicago				
Two Eyes on the Prize: Revealing the Complete Architectures of Planetary Systems through Transit									
Timing with Kepler and Spitzer									



Large Programs



PID	Science	Hours	s Hrs - Sched. Priorit		riority	PI, Institution		Title		
FID	Category	Total	1	2	3	ri, institution		Title		
10136	Extragalatic Stars	338.0	338.0			Mansi Kasliwal	ociw	SPIRITS: SPitzer InfraRed Intensive Transients Survey		
10054	Exoplanets	449.4	449.4			Heather Knutson	Caltech	Exploring the Relationship Between Planet Mass and Atmospheric Metallicity		
10103	Exoplanets	150.0	150.0			Nikole Lewis	MIT	Exoplanet Atmospheres in High Definition: 3D Eclipse Mapping of HD 209458b		
10067	Stellar Pops	449.4	449.4			Michael Werner	JPL	SpiKeS: Spitzer Kepler Survey		
10060	Compact Objects	144.6	96.4	48.2		Giovanni Fazio	SAO	Watching a supermassive black hole eat Sgr A* and cloud G2		
10140	High-z Galaxies	112.0	112.0			Dan Coe	STScI	Age, Stellar Mass, and Rest-Frame UV Slope of a z $^{\sim}$ 11 Galaxy		
10147	Cosmic IR Bgrnd	157.0	157.0			James Bock	Caltech	The North Ecliptic Pole Extragalactic Background Light Fluctuations Survey		
10098	AGN	134.4	134.4			Daniel Stern	JPL	Warm Spitzer Imaging of NuSTAR Fields		
10043	Nearby Galaxies	188.1	188.1			Kartik Sheth	NRAO	Not Dead Yet! Completing Spitzer's Legacy with Early Type Galaxies		
10055	High-z Galaxies	132.2		132.2		Linhua Jiang	ASU	Deep Spitzer/IRAC Imaging of the Subaru Deep Field		
10046	ULIRGS	230.6		230.6		David Sanders	Hawaii	Completing the Deep IRAC1,2 Imaging of the (U)LIRG Merger Sequence: the pre-merger galaxies and post-merger remnants		
10013	YSOs	162.7			162.7	Joseph Hora	SAO	YSO variability in Massive Star-forming Regions		
10138	Brown Dwarfs	318.2			318.2	Jacqueline Faherty	DTM CIW	The Young and the Restless: Revealing the Turbulent, Cloudy Nature of Young Brown Dwarfs and Exoplanets		
10012	Star Formation	107.4			107.4	Joseph Hora	SAO	A Survey for Outflows in Infrared Dark Clouds		
Totals: 3074.0 2074.7 411.0 588.3				588.3						



Medium & Small Proposals



Science	Prior	ity 1	Prio	rity 2	Priority 3				
Category	#	Hours	#	Hours	#	Hours			
Galactic									
Exoplanets	2	98.4	2	43.2					
Debris Disks	4	14.8			1	99.0			
Brown Dwarfs	4	178.6	1	52.8					
Evolved Stars	2	41.0	3	57.8					
Solar System									
Comets	1	4.9							
NEOs	1	19.9	1	6.4					
KBOs	1	6.5							
		Extrag	alactic						
High-z Galaxies	2	45.8	1	8.0					
Nearby Galaxies			2	30.8	1	80.7			
AGN	3	91.8	1	12.0					
Galaxy Clusters	1	4.9	1	22.3					
Interacting									
Galaxies	1	0.3	1	1.6					
Local Group	2	11.7							
Starburst									
Galaxies	1	37.0							
Totals	25	555.6	13	234.9	2	179.7			

Cycle-10 Program Selection



Joint Hubble/Chandra Proposals



5 joint proposals submitted, 3 HST & 2 CXO

2 programs selected

- 10081 Kochanek 3.4 hrs Spitzer, 4 orbits HST
 - Dust to Dust: Monitoring the Evolution of the New Class of Self-Obscured Transients
- 10094 Vieira 37 hrs Spitzer, 6 orbits HST
 - High-Redshift Starburst Galaxies Under the Cosmic Microscope: Unveiling the stellar histories of strongly lensed starburst galaxies with ALMA and Spitzer



Science Categories



Hours by Science	Scheduling Priority			Hours by Science	Scheduling Priority		
Category	1	2	3	Category	1	2	3
Galactic			Extragalactic				
Exoplanets	897.8	43.2	542.3	High-z Galaxies	1352.8	795.2	1338.9
Debris Disks	14.8		99.0	Nearby Galaxies	188.1	30.8	80.7
Brown Dwarfs	178.6	52.8	318.2	AGN	226.2	12.0	
Evolved Stars	41.0	57.8		Galaxy Clusters	4.9	22.3	
Compact Objects	96.4	48.2		Interacting Galaxies	0.3	1.6	
Star Formation			107.4	Local Group	11.7		
Stellar Populations	449.4			Starburst Galaxies	37.0		
				Cosmic IR			
Extragalactic Stars	984.0			Background	157.0		
Young Stellar Objects			162.7	ULIRGS		230.6	
Solar System			Total Galactic	2662.0	202.0	1229.6	
Comets	4.9			Total Solar System	31.3	6.4	0.0
NEOs	19.9	6.4		Total Extragalactic	1978.0	1092.5	1419.6
KBOs	6.5			Total	4671.3	1300.9	2649.2



Investigators



- 40% of the Cycle-10 principal investigators for priority 1 and 2 programs are new Spitzer PIs (21 of 53)
- The priority 1 and 2 programs are from 40 institutions in 15 US states and 6 foreign countries.
- 9 selected proposals have foreign Pls
 - three priority 1, four priority 2, two priority 3



Future Cycles



- The Spitzer project will return to the 2014 NASA
 Senior Review to propose for operations funding to support future observing cycles.
- We plan to issue a Cycle-11 proposal call by May 1, 2014, after consultation with NASA Headquarters regarding the results from the Senior Review.