

Astrophysics Division Research & Analysis Status

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Astrophysics Division R&A Lead

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Astrophysics R&A Elements

- Supporting Research & Technology (SR&T)
 - Astronomy & Physics Research & Analysis (APRA)*
 - Astrophysics Theory Program (ATP)*
 - Origins of Solar Systems (SSO)*
- Data Analysis (DA)
 - Astrophysics Data Analysis (ADP)*
 - Far Ultraviolet Spectroscopic Explorer (FUSE)*, X-ray Timing Explorer (RXTE)*
 - GALEX*, Swift*, Suzaku*
 - Hubble, Chandra, Spitzer, XMM, INTEGRAL
- Mission science teams for the above missions, plus those in development
 - GLAST, JWST, Kepler, SOFIA, WISE

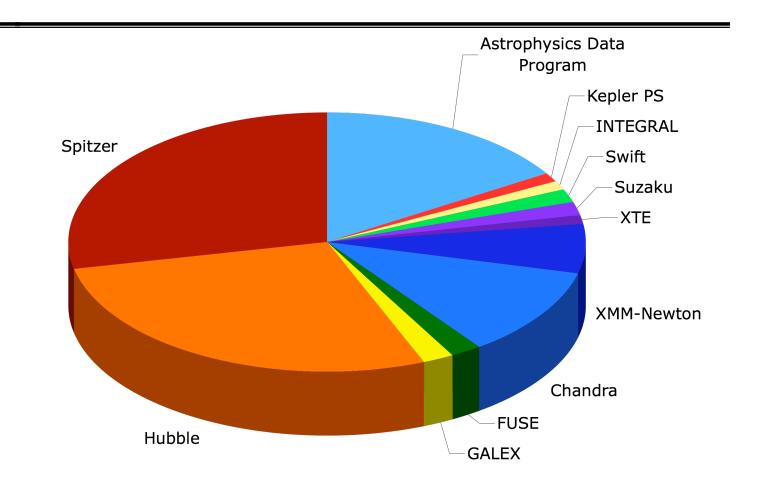


Astrophysics Research Budget

For <i>FY2007</i> , the following aggregates the competed Astrophysics research budget excluding flight hardware development
• "Astrophysics R&A" (really ST&T)\$50M
• Data analysis (other than "Astrophysics R&A")\$88M
 Mission specific General Observer/Guest Investigator programs
 Archival data analysis programs
• Mission Science Teams (other than "Astrophysics R&A")~ \$75M
 PI teams for missions and instruments selected through AO
 Additional team members selected through competition
• Participating scientists, interdisciplinary scientists, science working group members, etc.
• Total Astrophysics research and data analysis funding~ \$213M



FY2007 Astrophysics Data Analysis



Total FY07 Funding \$88M



FY2007 Astrophysics Data Analysis

_	FY07 Funding	Number of Investigations	Dollars per Investigation	Success Ratio	Time Oversubscription
Astrophysics Data Program	\$14,500,000	113	\$128,319	38%	-
Kepler PS	\$1,000,000	10	\$100,000	-	-
Swift	\$1,300,000	40	\$32,500	45%	-
Suzaku	\$1,700,000	64	\$26,563	39%	x4
XTE	\$800,000	89	\$8,989	70%	x5.46
FUSE	\$1,800,000	68	\$26,471	63%	x 3
GALEX	\$1,800,000	34	\$52,941	45%	x3.5
Chandra	\$10,100,000	184	\$54,891	25%	x6.4
Hubble	\$26,200,000	189	\$138,624	23%	x4.5
Spitzer	\$22,500,000	196	\$114,796	27%	x 6
XMM-Newton	\$5,800,000	129	\$44,961	30%	x 5
INTEGRAL_	\$900,000	34	\$26,471	61%	x6
TOTAL	\$88,400,000	1150			

Total FY07 Funding \$88M



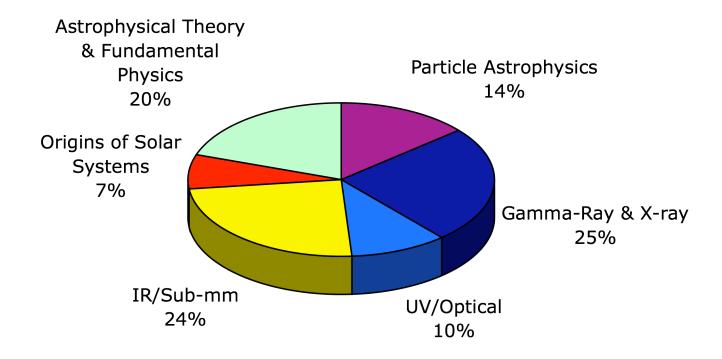
Supporting Research & Technology (SR&T)

\$51M in FY2007, ~ \$54M in FY2008

- Astronomy & Physics Research & Analysis (APRA)
 - Disciplines
 - Particle Astrophysics
 - Gamma-Ray
 - X-ray
 - UV/Optical
 - IR/Sub-mm/Radio
 - Categories of Investigations
 - Suborbital Investigations
 - Detector Development
 - Supporting Technology (Optics, Coatings, Coronagraphs, ...)
 - Laboratory Astrophysics
 - Ground-based
- Astrophysical Theory & Fundamental Physics (ATFP)
- Origins of Solar Systems



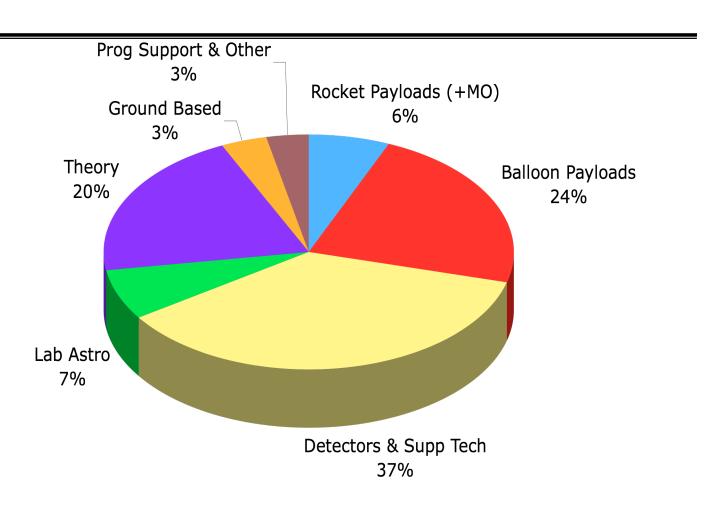
FY2007 Astrophysics SR&T



Total FY2007 Funding \$51M



FY2007 Astrophysics SR&T



Total FY2007 Funding \$51M



Astrophysics MoO & Sounding Rockets

	PI	INST	Туре	Title	Flight Status	FY05	FY06	FY07
1	Edelstein	U. Cal., Berkeley	Mission of Oportunity		Flew on Korean satellite, KAISTSAT-4, launched in late 2003	xxx	xxx	xxx
				Subtotal: Missions of Opportunity		\$430,000	\$430,000	\$430,000
1	McCammon	U. Wisc Madison	Rocket	Sounding Rocket investigations of the Soft X- ray Diffuse Background, Fundamental Studies of Transition Edge Sensors, and Optimization of Detectors and Filters for Low Energy Diffuse Sources	Flight planned for fall 2007/early 2008	xxx	xxx	xxx
2	Cash	U. Colorado	Rocket	X-ray Spectroscopy of the Background and Highly Extended Sources	Initial flight in 2006; additional flights TBD	xxx	xxx	xxx
3	Figueroa	MIT	Rocket	Micro-X: The High-Resolution Microcalorimeter X-ray Imaging Rocket	Payload under development; anticipated first flight in 2010	0	0	xxx
4	Bock	CalTech	Rocket	The Cosmic Infrared Background Experiment (CIBER)	First flight proposed for spring 2008. Second Flight in 2009	xxx	xxx	xxx
5	Chakrabarti	Boston U.	Rocket	Planet Imaging Concept Testbed Using a Rocket Experiment (PICTURE)	Flight Scheduled for July 2007	xxx	xxx	xxx
6	Cruddace	NRL	Rocket	Spectroscopic Studies of White Dwarfs	Flight scheduled for February 2007	xxx	xxx	0
7	McCandliss	Johns Hopkins U.	Rocket	Rocket and Laboratory Studies in Astronomy (FORTIS)	Flew June 2007, Flew in January 2008	xxx	xxx	xxx
8	Green	U. Colorado	Rocket	Spectroscopy in the Far Ultraviolet	First flight in fall 2009	0	0	xxx
9	Nordsieck	U. Wisconsin	Rocket	Exploring New Astrophysical Diagnostics with the Far-Ultraviolet SpectroPolarimeter (FUSP)	First flight in fall 2008	0	0	xxx
				Subtotal: Sounding Rocket Payloads	5	\$2,502,801	\$2,519,700	\$3,487,567



Astrophysics HE Balloon Payloads

1	Harrison	Caltech	Balloon	The High Energy Focusing Telescope (HEFT): A Platform for Science and Technology Demonstration	Series of three flights planned beginning in 2008	xxx	xxx	xxx
2	Boggs	U.Cal., Berkeley	Balloon	The Nuclear Compton Telescope	Initial flight in June 2005; re-fllights (LDB from Australia) planned for December 2008 and 2010	xxx	xxx	xxx
3	Tueller	GSFC	Balloon	International Focusing Optics Collaboration for μCrab Sensitivity (INFOCUS)	Last flight in Fall 2004; series of LDB reflights planned beginning 2008	xxx	xxx	xxx
4	Ramsey	MSFC	Balloon	A Research Program in X-ray Astronomy	Flight scheduled for Spring 2007	xxx	xxx	xxx
5	Grindlay	Harvard U.	Balloon	Detector and Telescope Development for ProtoEXist	Flight planned for 2008	xxx	xxx	xxx
6	Zych	U.Cal., Riverside	Balloon	Balloon Flight Observations with the Prototype TIGRE Compton Gamma-ray Telescope	Flight planned for Spring/Fall 2007	xxx	xxx	0
				Subtotal: High Energy Astrophysics	Balloon Payloads	\$3,305,000	\$2,842,000	\$2,741,000

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Astrophysics UV/IR Balloon Payloads

1	Devlin	U. Penn.	Balloon	Extragalactic and Galactic Surveys with the Balloon-borne Large Aperture Sub-millimeter Telescope - BLAST	Flight planned for 2008	xxx	xxx	xxx
2	Hanany	U. Minnesota	Balloon	Search for the B-Mode Signal of the Cosmic Microwave Background Polarization With the Balloon-bourne E and B Experiment (EBEX)	Flight planned for 2008	xxx	xxx	xxx
5	Martin	CalTech/Columbia	Balloon	Faint-Intergalactic-Medium Redshifted Emission Balloon (FIREBALL)	Flew in Summer 2007	xxx	xxx	xxx
4	Lubin	U. Cal., Santa Barbara	Balloon	The COsmic Foreground Explorer (COFE) A Balloon Borne Microwave Polarimeter to Characterize Large Scale CMB Polarization Foregrounds		0	xxx	xxx
3	Lange	CalTech	Balloon	SPIDER: A Large Angular Scale Millimeter-wave Polarimeter	Flight planned for 2010	0	0	XXX

\$1,995,000

\$2,409,000

\$2,460,000

Subtotal: UV/IR Balloon Payloads

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Astrophysics Particle Astro Payloads

				Subtotal: Particle Astrophysics Balloon Payloads	\$7,776,483	\$7,260,562	\$6,824,498
8	Binns	Washington U.	Balloon	TIGER: Trans-Iron Galactic Element Recorder	xxx	xxx	xxx
•	,			Detector for Indirect			
7	Hailey	Columbia U.	Balloon	Astrophysics GAPS: Development of a Novel Antimatter	xxx	xxx	xxx
6	Müller	U. Chicago	Balloon	TRACER: Experiments in High Energy	xxx	xxx	xxx
				Telescope to Study Cosmic Ray Electrons above 10**12 eV			
5	Musser	Indiana U.	Balloon	Spectra up to 10**15 eV CREST: Cosmic Ray Electron Synchrotron	xxx	xxx	xxx
4	Seo	U. Maryland	Balloon	CREAM: Cosmic Ray Energetics and Mass Experiment to Study Composition and Energy	xxx	xxx	xxx
,	riterien	OSI C	Danoon	Superconducting Spectrometer	***	***	***
3	Mitchell	GSFC	Balloon	to Study Cosmic Ray Nuclei to 10**14 eV and Electrons to 10**12 eV BESS: Balloon-Borne Experiment with a	xxx	xxx	xxx
2	Wefel	LSU	Balloon	to Search for Ultra-High Energy Astrophysical Neutrinos ATIC: Advanced Thin Ionization Calorimenter	xxx	xxx	xxx
1	Gorham	U. Hawaii	Balloon	ANITA: Antarctic Impulsive Transient Antenna	xxx	xxx	xxx

Subtotal: Astrophysics Balloon Payloads \$13,076,483 \$12,511,562 \$12,025,498

Total: Astrophysics Suborbital Payloads \$16,009,284 \$15,461,262 \$15,943,065



ROSES-2006 Statistics

Astronomy and Physics Research and Analysis - 2006 (Proposals/Investigations) Astrophysics Theory 2-Jun-06 13-Dec-06 194 118 20 17% Beyond Einstein Foundation Science 2-Jun-06 13-Dec-06 194 56 12 21% Origins of Solar Systems 2-Jun-06 26-Mar-07 297 22 9 41% Astrophysics Data Analysis 23-Jun-06 22-Dec-06 182 99 35 35% GALEX Guest Investigator Cycle 3 7-Jul-06 3-Jan-07 180 76 32 42% Swift Guest Investigator Cycle 3 28-Jul-06 24-Jan-07 180 88 45 51% FUSE Guest Investigator Cycle 8 15-Sep-06 1-May-07 228 107 68 64% Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) TOTALS Non-GO solicitations CO colicitations CO colicitations CO colicitations CO colicitations CO colicitations CO colicitations	Program Element Title	Due Date	Notification Date	150-day Metric	# Props Received	# New Selected	% Selected
Beyond Einstein Foundation Science 2-Jun-06 13-Dec-06 194 56 12 21% Origins of Solar Systems 2-Jun-06 26-Mar-07 297 22 9 41% Astrophysics Data Analysis 23-Jun-06 22-Dec-06 182 99 35 35% GALEX Guest Investigator Cycle 3 7-Jul-06 3-Jan-07 180 76 32 42% Swift Guest Investigator Cycle 3 28-Jul-06 24-Jan-07 180 88 45 51% FUSE Guest Investigator Cycle 8 15-Sep-06 1-May-07 228 107 68 64% Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) 13-Apr-07 10-Aug-07 119 179/148 55/32 31%/22% TOTALS Non-GO solicitations	, ,	14-Apr-06	27-Oct-06	196	143/128	39/34	27%/26%
Origins of Solar Systems 2-Jun-06 26-Mar-07 297 22 9 41% Astrophysics Data Analysis 23-Jun-06 22-Dec-06 182 99 35 35% GALEX Guest Investigator Cycle 3 7-Jul-06 3-Jan-07 180 76 32 42% Swift Guest Investigator Cycle 3 28-Jul-06 24-Jan-07 180 88 45 51% FUSE Guest Investigator Cycle 8 15-Sep-06 1-May-07 228 107 68 64% Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) 13-Apr-07 10-Aug-07 119 179/148 55/32 31%/22% TOTALS Non-GO solicitations	Astrophysics Theory	2-Jun-06	13-Dec-06	194	118	20	17%
Astrophysics Data Analysis 23-Jun-06 22-Dec-06 182 99 35 35% GALEX Guest Investigator Cycle 3 7-Jul-06 3-Jan-07 180 76 32 42% Swift Guest Investigator Cycle 3 28-Jul-06 24-Jan-07 180 88 45 51% FUSE Guest Investigator Cycle 8 15-Sep-06 1-May-07 228 107 68 64% Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) 13-Apr-07 10-Aug-07 119 179/148 55/32 31%/22% TOTALS Non-GO solicitations	Beyond Einstein Foundation Science	2-Jun-06	13-Dec-06	194	56	12	21%
GALEX Guest Investigator Cycle 3 7-Jul-06 3-Jan-07 180 76 32 42% Swift Guest Investigator Cycle 3 28-Jul-06 24-Jan-07 180 88 45 51% FUSE Guest Investigator Cycle 8 15-Sep-06 1-May-07 228 107 68 64% Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) TOTALS Non-GO solicitations TOTALS Non-GO solicitations	Origins of Solar Systems	2-Jun-06	26-Mar-07	297	22	9	41%
Swift Guest Investigator Cycle 3 28-Jul-06 24-Jan-07 180 88 45 51% FUSE Guest Investigator Cycle 8 15-Sep-06 1-May-07 228 107 68 64% Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) 13-Apr-07 10-Aug-07 119 179/148 55/32 31%/22% Non-GO solicitations 182 998 333 33% Non-GO solicitations 571 142 25%	Astrophysics Data Analysis	23-Jun-06	22-Dec-06	182	99	35	35%
FUSE Guest Investigator Cycle 8 15-Sep-06 1-May-07 228 107 68 64% Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) TOTALS Non-GO solicitations 15-Sep-06 1-May-07 228 107 68 64% 107 68 64% 119 156 46 29% 119 179/148 55/32 31%/22% 119 179/148 55/32 31%/22% 119 179/148 55/32 31%/22%	GALEX Guest Investigator Cycle 3	7-Jul-06	3-Jan-07	180	76	32	42%
Suzaku Guest Observer Cycle 2 1-Dec-06 30-Mar-07 119 156 46 29% Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) 13-Apr-07 10-Aug-07 119 179/148 55/32 31%/22% TOTALS Non-GO solicitations 182 998 333 33% 571 142 25%	Swift Guest Investigator Cycle 3	28-Jul-06	24-Jan-07	180	88	45	51%
Astronomy and Physics Research and Analysis - 2007 (Proposals/Investigations) TOTALS Non-GO solicitations 13-Apr-07 10-Aug-07 119 179/148 55/32 31%/22% 182 998 333 33% 571 142 25%	FUSE Guest Investigator Cycle 8	15-Sep-06	1-May-07	228	107	68	64%
Analysis - 2007 (Proposals/Investigations) TOTALS 182 998 333 33% Non-GO solicitations 571 142 25%	Suzaku Guest Observer Cycle 2	1-Dec-06	30-Mar-07	119	156	46	29%
Non-GO solicitations 571 142 25%		13-Apr-07	10-Aug-07	119	179/148	55/32	31%/22%
Noti Go Solicitations	TOTALS	6		182	998	333	33%
GO SOUCIALIONS 747 131 4570	Non-GO solicitations GO solicitations				571 427	142 191	25% 45%



ROSES-2006 Statistics

Program	ROSES 2006	ROSES 2006	ROSES 2006
	APRA	ATP/BEFS	ADP
# Received	128	175	98
# Funded	34	32	37
% Funded	27%	18%	38%
\$ Requested (3 yr) \$ Awarded (3y) % Awarded	\$117,592,729	\$60,288,070	\$7,599,000
	\$29,321,340	\$11,451,187	\$2,761,000
	25%	19%	36%
Success Fraction University FFRDC NASA Private	19/69=28% 1/7=14% 13/50=26% 1/2=50%	27/147=18% 1/8= 13% 4/16=25% 0/4= 0%	31 0 4 1



Statistics

ROSES-2006 APRA Detail

Program	Sub-mm (CMB)	UV/Opt/IR/ Suborbital	UV/Opt Detectors	IR Detectors	•	Supporting Technology	Ground- Based	X-ray Astrophysics	Gamma-Ray Astrophysics	Particle Astrophysics	TOTAL APRA
# Received	13	9	8	17	27	11	9	16	11	7	128
# Funded	3	1	3	3	8	3	1	6	4	2	34
% Funded	23%	11%	38%	18%	30%	27%	11%	38%	36%	29%	27%
\$ Requested	\$18,264,408	\$24,849,184	\$6,584,996	\$13,588,273	\$9,651,562	\$5,365,765	\$1,252,558	' '	\$20,097,064	\$3,643,033	\$117,592,729
\$ Awarded	\$5,544,000	\$961,000	\$2,397,000	\$3,350,000	\$2,806,146	\$1,136,000	\$308,600		\$4,537,200	\$1,818,294	\$29,321,340
% Awarded	30%	4%	36%	25%	29%	21%	25%		23%	50%	25%
Success Fraction University FFRDC NASA Private	2/7 - 1/6 -	0/7 - 1/2 -	2/6 - 1/2 -	1/4 - 2/13 -	4/15 1/3 2/7 1/2	2/6 0/2 1/3	0/2 0/1 1/6	4/10 0/1 2/5	2/7 - 2/4 -	2/5 - 0/2 -	19/69=28% 1/7=14% 13/50=26% 1/2=50%



ROSES-2007 NRA Review Schedule

Program Element	Program Officer	Proposals Due	Panel Review Complete	# of Proposed Investigations	-	Investi- gations Selected	Recent Activities
Kepler Participating Scientists	P. Marcum	05/18/07	08/09/07	37	3/28	8 (22%)	- Review completed. Selection letters sent.
Origins of Solar Systems (with Planetary Science Division)	Z. Tsvetanov	05/25/07	09/20/07	104	5/30	27 (26%)	- Review completed. Selection letters sent.
Astrophysics Theory and Fundamental Physics	R. Hellings	06/01/07	09/26/07	181	11/68	37 (20%)	- Review completed. Selection letters sent.
GALEX Guest Investigator - Cycle 4	Z. Tsvetanov	06/22/07	09/19/07	99	4/32	35 (35%)	- Review completed. Selection letters sent.
Astrophysics Data Analysis	J. Hayes	06/22/07	10/11/07	98	6/27	41 (42%)	- Review completed. Selection letters sent.
GLAST Guest Investigator - Cycle I	R. Harnden	09/07/07	12/19/07	167	4/33	41 (25%)	- Review completed. Selection letters sent.
Swift Guest Investigator - Cycle 4	R. Harnden	11/09/07	01/25/08	144	4/26		- Review completed.
Suzaku Guest Observer - Cycle 3	L. Kaluzienski	11/30/07	02/12/08	120	4/24		- Panels set up. Proposa to be reviewed in 2 wee
Astronomy & Physics Research & Analysis - 2008	W. Sanders	04/11/08	06/13/08				



ROSES Changes for 2008

- 1. ROSES-2007 APRA-2008 was amended to allow grants of up to 4 years for Detector Development, Supporting Technology, Laboratory Astrophysics and Ground-Based Proposals. Suborbital Investigations will remain at up to 5 years.
- 2. ROSES-2008 will allow 4-year awards for ATFP, ADP, and APRA.
- 3. ROSES-2007 APRA-2008 (and ROSES-2008) amended to encourage suborbital proposals to establish absolute photometric standards across the electromagnetic spectrum.
- 4. ROSES-2007 APRA-2008 (and ROSES-2008) amended to include technology and training as factors of intrinsic merit:
 - "For suborbital proposals, specific factors that will be considered when evaluating a proposal's intrinsic merit are the scientific merit, the degree to which it advances the technology readiness level of a detector or supporting technology, and the degree to which it advances the readiness of junior researchers or graduate students to assume leadership roles on future NASA space flight missions."



Funding History by Level-3 WBS

	WBS	F	Y04 Targets	F	Final Y05 Targets	F	Final Y06 Targets	F	Final 107 Targets	FY	Initial Y08 Targets	FY	Current 08 Targets
HEA ATP Particle Astro ULDB	399131.02.01 399131.02.02 399131.02.03 399131.02.04	\$ \$ \$	14,548,000 7,860,000 8,248,000 2,740,000	\$ \$ \$	13,693,202 7,363,285 7,670,887 2,566,052	\$ \$ \$		\$ \$ \$	12,131,980 10,106,352 6,971,071	\$ \$ \$	11,306,593 9,469,512 6,531,797		TBD TBD TBD
UV/Opt IR/Sub-mm Orig SS Keck Support Other	399131.02.05 399131.02.06 399131.02.07 399131.02.08 399131.02.09	\$ \$ \$ \$ \$ \$	8,643,000 11,766,000 4,209,000 2,800,000 1,019,000	\$ \$ \$ \$ \$	7,919,208 10,822,918 3,871,613 2,355,524 854,085	\$ \$ \$ \$	15,363,712	\$ \$ \$	5,158,608 12,146,210 3,673,163 931,616	\$ \$ \$	4,833,544 11,380,831 3,441,703 559,020	\$	TBD TBD 3,441,703 559,020
Astrophysics R8	ιA	\$		\$		\$, ,	\$	51,119,000	\$	47,523,000	_	~\$54M
BEFS TPF-FS TOTAL		\$ \$ \$	4,000,000 2,000,000 67,833,000	\$ \$ \$	4,000,000 2,000,000 63,116,774	\$ \$ \$	2,000,000 - 67,288,132	\$ \$ \$	- - 51,119,000	\$ \$ \$	- - 47,523,000	\$ \$	- - ~\$54M



APRA Review Panels

	Suborbital	Detectors	Supp. Technology	Lab Astro	Ground-Based
Sub-mm	5 Balloon	Sub-mm (15) 3 Detector	7 Supporting Technology	Lab Astro 2 - Molecules & Dust (15)	Ground-based (9)
Far IR	2 Balloon 2 Rocket	IR Detectors (13)	SuppTech (18)		
Near IR	UV-IR	(==)	(==)		
	Suborbital (13)	UV/Optical Detectors			
UV/Optical	2 Balloon 7 Rockets	(10)		Lab Astro 1, Atoms & Ions	
		X-ray (16)		(11)	
X-ray	1 Rocket 1 MoO	7 Detector	7 Supporting Technology		
C		Gamma-ray (17	7)		
Gamma-ray	5 Balloon 2 MoO	5 Detector	5 Supporting Technology		
	Partio	cle Astrophysic	cs (10)	1 Lab Astro	
Particle Astrophysics	9 Balloon				



Issues & Concerns

- 1. Funding cuts in recent years have been devastating, but we are optimistic for the future.
- 2. We do not have the APWG or UWG any more to provide community input to us on R&A issues, so the Astrophysics NAC Subcommittee is it. Are you the appropriate ones to do that?
- 3. We need to have a structured process to step back and examine the funding balance amongst the SRT disciplines, theory, data analysis, fellowship programs, etc.
- 4. What is the role of proposal pressure, aka "demand-based balancing?"



Backup



How awardees are selected

- Solicitations for proposals are made via NASA Research Announcements (NRAs)
- Annual R&A solicitation, "Research Opportunities in Space and Earth Sciences" (ROSES), is open to University, NASA, FFRDC, Industry
 - SMD's omnibus NRA; ROSES-2006 has 64 program elements
 - Used to solicit virtually all non-flight opportunities
 - No special treatment for successor proposals
- Peer Reviews panels evaluate:
 - Scientific or technical merit
 - Relevance to NASA's objectives
 - Cost realism and reasonableness
- Program officer recommends selections based on peer review evaluations and programmatic considerations



Principles for the Research Program

- Scientific merit through peer review
 - Use scientific merit, as determined through community and peer review, as the primary criterion for science program planning and resource commitment.
- Timely availability of data
 - Ensure vigorous and timely interpretation of mission data, requiring that data acquired be made publicly available as soon as possible after scientific validation.
- Community participation
 - Ensure the active participation of the research community outside NASA, which is critical to success.
- Maintain NASA capabilities
 - Maintain essential technical capabilities at the NASA Centers.



ROSES-2005 Statistics

Program Element Title	Due Date	Notification Date	150-day Metric	# Props Received	# New Selected	% Selected
GALEX Guest Investigator – Cycle 2	8-Apr-05	3-Oct-05	178	64	25	39%
Astronomy and Physics Research and Analysis	22-Apr-05	22-Sep-05	153	160	45	28%
Terrestrial Planet Finder Coronagraph / Instrument Concept Studies	29-Apr-05	28-Jun-05	60	13	5	38%
Terrestrial Planet Finder / Foundation Science	27-May-05	16-Feb-06	265	25	3	12%
Astrophysics Theory	3-Jun-05	10-Nov-05	160	128	21	16%
Beyond Einstein Foundation Science	3-Jun-05	10-Nov-05	160	54	7	13%
Swift Guest Investigator – Cycle 2	8-Jul-05	1-Dec-05	146	67	33	49%
FUSE Guest Investigator – Cycle 7	16-Sep-05	1-Mar-06	166	81	49	60%
Rossi X-ray Timing Explorer Guest Observer – Cycle 11	19-Sep-05	18-Jan-06	121	131	59	45%
Astro E2/Suzaku Guest Observer – Cycle 1 Resolicitation	6-Jan-06	13-Sep-06	250	158	59	37%
Concept Studies for the Joint Dark Energy Mission	17-Mar-06	28-Jul-06	133	6	3	50%