

**Proposals Submitted to the
Traditional Enhancement Program - Physics/Astronomy
for the FY 2007-2008 Review Cycle**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
001PHY-08 PHY	Centenary Physics: Spectroscopy in the Sciences Enhancement	Centenary College (Physics);	Troy C. Messina;	1	\$ 121,000
				Total	\$ 121,000

E

Proposal is a **New Request**

002PHY-08 PHY	Enhancement of Teaching and Undergraduate Laboratories in the Physics Department	Dillard University (Physics);	Abdalla Darwish; Allan Burkett; Hadi Alkahby; Regional Stanton;	1	\$ 94,321
				Total	\$ 94,321

E

Proposal is a **New Request**

E=Primarily an Equipment Request

N=Not Primarily an Equipment Request

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
003PHY-08 PHY	Upgrade of the LSU Helium Liquefier Facility	Louisiana State University And A&M College - Baton Rouge (Physics);	Philip Adams; David Young; John DiTusa;	1	\$ 236,382
				Total	\$ 236,382

E

Proposal is a **New Request**

004PHY-08 PHY	Enhancement for Teaching Astronomy (E.T.A.)	Louisiana State University And A&M College - Baton Rouge (Physics and Astronomy);	Amy Campbell; Robert Hynes; T. Gregory Guzik;	1	\$ 350,300
				Total	\$ 350,300

E

Proposal is a **New Request**

005PHY-08 PHY	Science Teacher Training Using Astrophysics Research	Louisiana State University And A&M College - Baton Rouge (Physics & Astronomy);	Michael L. Cherry; J. Gregory Stacy; Pamela Blanchard; T. Gregory Guzik;	1 2	\$ 152,870 \$ 35,741
				Total	\$ 188,611

N

Proposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
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006PHY-08 PHY	A Quantum-Design Physical Property Measurement System (PPMS) for Novel Thermoelectric Material Studies	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering);	Shengmin Guo; D. M. Cao; David P. Young; Donghui (Catherine) Zhang; M. A. Wahab;	1	\$ 223,090
E				Total	\$ 223,090

Proposal is a **New Request**

007PHY-08 PHY	Acquisition of a Variable-Temperature SPM for Multidisciplinary Materials Research and Education	Louisiana State University And A&M College - Baton Rouge (Physics and Astronomy);	Richard L. Kurtz; Jayne C. Garno; John C. Flake; Phillip Sprunger; Robin McCarley; Ward Plummer; Wen Jin Meng;	1	\$ 149,200
E				Total	\$ 149,200

Proposal is a **New Request**

008PHY-08 PHY	Enhancement of the High Resolution Surface Characterization System at CAMD	Louisiana State University And A&M College - Baton Rouge (Center for Advanced Microstructures and Devices (CAMD));	Yaroslav Losovyj; Orhan Kizilkaya;	1	\$ 116,730
E				Total	\$ 116,730

Proposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
009PHY-08 PHY	High-resolution UV and X-ray Sources for Atomic and Materials Physics	Louisiana State University And A&M College - Baton Rouge (Physics and Astronomy);	Phillip Sprunger; David Young; Erwin Poliakoff; Orhan Kizilkaya; Richard Kurtz;	1	\$ 99,950
E	Proposal is a New Request				
010PHY-08 PHY	Enhancing Student Education & Research Capabilities in Applied Physics at LSUS	Louisiana State University And A&M College - Shreveport (Physics);	Gary R. Boucher;	1	\$ 12,900
E	Proposal is a New Request				
011PHY-08 PHY	Reaching for the Stars	Louisiana State University And A&M College - Shreveport (Chemistry and Physics);	Laura A. Whitlock;	1	\$ 109,996
E	Proposal is a New Request				
Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested

012PHY-08 PHY	Louisiana Tech Astronomical Observatory Enhancement	Louisiana Tech University (Physics);	John Shaw; Natalia Zotov;	1	\$ 50,956
				Total	\$ 50,956

EProposal is a **New Request**

013PHY-08 PHY	Thermal Evaporator for Physics Education and Research	Louisiana Tech University (Institute for Micromanufacturing);	Chester Wilson; John McDonald; Pedro Derosa; Tabbatha Dobbins;	1	\$ 59,500
				Total	\$ 59,500

EProposal is a **New Request**

014PHY-08 PHY	Enhancement of the Physics Instructional Laboratories at Nicholls State University	Nicholls State University (Physical Sciences);	Chadwick Young; Glenn Lo; Kaisa Young;	1	\$ 81,623
				Total	\$ 81,623

EProposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
015PHY-08 PHY	Educational Expansion and Research Enhancement with a 20-Node Parallel Computing Cluster	Southern University and A&M College at Baton Rouge (Physics);	Edward E. Doomes;	1 2	\$ 38,056 \$
				Total	\$ 38,056

E

Proposal is a **New Request**

016PHY-08 PHY	Enhancement of the Computational Capability for Predictive Quantum Computations of Properties of Nano and Electronic Materials and Related Systems	Southern University and A&M College at Baton Rouge (Physics);	Guang-Lin Zhao; Diola Bagayoko;	1	\$ 99,800
				Total	\$ 99,800

E

Proposal is a **New Request**

017PHY-08 PHY	Thermal Transport Measurements of Novel Thermoelectric Materials and Related Systems	Southern University and A&M College at Baton Rouge (Physics);	Guang-Lin Zhao; Laurence L. Henry;	1	\$ 24,400
				Total	\$ 24,400

E

Proposal is a **New Request**

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018PHY-08 PHY	Adaptation and Implementation of Technology for SUNO Physics and Science Classes	Southern University and A&M College at New Orleans (Physics);	Mostafa A. Elaasar;	1	\$ 65,974
				Total	\$ 65,974

EProposal is a **New Request**

019PHY-08 PHY	A Physical Property Measurement System (PPMS) to Enhance Research and Education in Material Science at Tulane	Tulane University (Physics);	Zhiqiang Mao; Ulrike Diebold;	1	\$ 190,365
				Total	\$ 190,365

EProposal is a **New Request**

020PHY-08 PHY	Tulane - LSU Quantum Materials and Technologies Colloquium Series	Tulane University (Physics); Louisiana State University And A&M College - Baton Rouge;	James H. McGuire; Jonathan P. Dowling;	1 2	\$ 35,000 \$ 35,000
				Total	\$ 70,000

NProposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
021PHY-08 PHY	High Energy, Heavy Ion Nanoprobe System for Science and Engineering Research and Education	University of Louisiana at Lafayette (Physics/Louisiana Accelerator Center);	Gary A. Glass; Alexander D. Dymnikov; Andrei Chistoserdov; Jerry K. Keska; Karl H. Hasenstein; Renuka P. Jindal;	1	\$ 154,500
E				Total	\$ 154,500
Proposal is a New Request					
022PHY-08 PHY	STIM (Scanning Transmission Ion Microscopy) Immersive Tomography	University of Louisiana at Lafayette (Louisiana Accelerator Center);	Louis M. Houston; Dirk Reiners; Dirk Reiners; Gary A. Glass; Gary A. Glass; Henry Chu;	1	\$ 53,000
E				Total	\$ 53,000
Proposal is a New Request					
023PHY-08 PHY	Astronomy Improvement for ULM Science Education and Community Outreach	University of Louisiana at Monroe (Mathematics and Physics);	John F. Anderson; M. Sean Chenoweth;	1	\$ 75,463
E				Total	\$ 75,463
Proposal is a New Request					

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024PHY-08 PHY	Modernizing Advanced Physics Laboratories at UNO with the Emphasis on Applied Physics	University of New Orleans (Physics);	Leszek M. Malkinski; Charles G. Seab; George Ioup; Juliette Ioup; Kevin L. Stokes; Leonard Spinu;	1	\$ 85,000
				Total	\$ 85,000

EProposal is a **New Request**

025PHY-08 PHY	Automated Real-Time Image Monitoring and Control Equipment for Physical Measurement of Optical Processes	University of New Orleans (Physics);	Ashok Puri; Jeffrey Gray;	1	\$ 63,174
				Total	\$ 63,174

EProposal is a **New Request**

026PHY-08 PHY	Acquisition of a Cryogenic Probe Station for Novel Nanomaterials Investigation	University of New Orleans (Physics and AMRI);	Leonard Spinu; Charles J. O'Connor; John B. Wiley; Kevin L. Stokes; Leszek M. Malkinski;	1	\$ 160,000
				Total	\$ 160,000

EProposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
027PHY-08 PHY	Electrospinning Apparatus for Nanofiber Fabrication	University of New Orleans (Physics and AMRI);	Kevin L. Stokes; John Wiley; Leszek M. Malkinski; Weilie Zhou;	1	\$ 24,806
				Total	\$ 24,806

E

Proposal is a **New Request**

Summary of Proposals Submitted to the Traditional Enhancement Program - Physics/Astronomy for the FY 2007-2008 Review Cycle			
Total Number of Proposals Submitted	Total First-Year Funds Requested	Total Funds Requested	Total First-Year Funds Available
27	\$ 2,928,356	\$ 2,999,097	\$