**DEPARTMENT of PHYSICS**

*First-rate Science • Amazing Ambience • Close-knit Community*

**GRADUATE ADMISSIONS 2009**

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**Graduate Admissions website:**
http://graddiv.ucsc.edu/admissions/

**Application Filing Requirements:**
http://graddiv.ucsc.edu/admissions/reqs.php

**Application website:**
https://apply.embark.com/Grad/UCSantaCruz/79/

**Physics Department website:**
http://physics.ucsc.edu

**Deadline to submit applications for Fall 2009 admission:** January 15, 2009

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**CONDENSED MATTER and BIOPHYSICS**

- **Sriram Shastry** awarded the prestigious 2009 Lars Onsager Prize by the APS
- **Peter Young** awarded the prestigious 2009 Aneesur Rahman Prize by the APS
- **Alexander Sher** joins the department as part of an expanding program in biophysics
- **David Belanger** and **Frank "Bud" Bridges** resolve a hot issue on LaCoO3, a novel spin compound
- **Sue Carter** and **Glenn Alers** developing the next generation solar-energy technology
- **Josh Deutsch** explains key physics of magnetic avalanches on disk drives
- **Gey-Hong Gweon** sheds light on graphene and high temperature superconductors
- **Onuttom Narayan** solves a major puzzle in heat conduction along a Fermi-Pasta-Ulam chain
- **Zack Schlesinger** develops a model to explain his negative thermal expansion data

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**PARTICLE PHYSICS and ASTROPHYSICS/COSMOLOGY**

- Several faculty members are involved in the **Large Hadron Collider** experiment, which is set to unveil a new world of particle physics
- **Steven Ritz**, GLAST Project Scientist to join UCSC Physics faculty, **Fermi Gamma-Ray Space Telescope** (formerly "GLAST") successfully launched and obtaining first results
- **Joel Primack** delivers distinguished J. Robert Oppenheimer Memorial Lecture at Los Alamos National Lab
- Graduate student **Douglas Spolyar**’s Physical Review Letter selected by the journal as Suggested Reading
- **Michael Dine** speaks at Clay Foundation Symposium, "Stringy Reflections on the LHC". **Tom Banks** and **Michael Dine** each have new books from Cambridge University Press on advanced particle theory
- **VERITAS** gamma-ray telescopes celebrate first light
- **BARREL**, a flotilla of NASA balloons to study Earth’s radiation belts, will have its mission control station at UCSC