
	<h2 style="margin: 0;">WEEKLY CALENDAR</h2> <h3 style="margin: 0;">Physics & Astronomy</h3> <p style="margin: 0;">202 Nicholson Hall</p>	
<p>Baton Rouge, LA 70803-4001 http://www.phys.lsu.edu</p>	<p>Louisiana State University November 29, 2004</p>	<p>Tel: (225) 578-2261 Fax: (225) 578-5855</p>



GENERAL SEMINAR

"The Quantum Mechanics of Global Warming"

Dr. Brad Marston

Brown University

Thursday, December 2, 2004, 3:40 PM in Room 109 Nicholson Hall

Host: Dr. Ilya Vekhter

(Refreshments served at 3:15 p.m. in Room 229 Nicholson)

Abstract

Quantum mechanics plays a crucial, albeit often overlooked, role in our understanding of the Earth's climate. In this talk, I use three well known aspects of quantum mechanics to present a simple physical picture of what may happen as the concentrations of greenhouse gases such as carbon dioxide continue to increase. I also utilize some basic astronomy and wave mechanics to decipher historical and paleoclimatic records. I conclude with a personal perspective on the politics versus the science of global warming.

Saturday Science

"Sediments in the Upper Breton Sound, Louisiana"

Dr. Jaye Cable

Oceanography & Coastal Studies - LSU

Saturday, December 4, 2004 in Room 130 Nicholson Hall

10:00 - 11:30 AM

Welcome To

Dr. Cigdem Capin, a Postdoctoral Researcher with Dr. John DiTusa. She is located in Room 211-A Nicholson, Extension 8-0814.

Announcements:

Due to the Thanksgiving Holiday, the University will be closed on Thursday, November 25 and Friday, November 26. Have a Safe and Happy Thanksgiving.



"3D simulations of Einstein's equations: Symmetric hyperbolicity, live gauges, and dynamic control of the constraints." **M. Tiglio, L. Lehner and D. Nelson**, Phys. Rev. D, V70, N10, 104018, (2004).

"Supersymmetry in quantum mechanics: an extended view," **A.R. P. Rau**, J. Phys. A: Math. Gen. 37 (2004) 10421-10427.

"Summation by parts and dissipation for domains with excised regions," **Gioel Calabrese, Luis Lehner, Oscar Reula, Oliver Sarbach and Manuel Tiglio**, Class. Quantum Grav. 21 (2004) 5735-5757.

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