

Psychology & Physics Seminar

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Wednesday 10/11/2006, 4:30pm
Willet Science Center 101

From Brains to Branes: *Probing the Possible Philosophical, Practical, and Programmatic Partnerships between Physics and Psychology*

In this talk I will discuss some of the pervasive paradigms like attention and arousal in psychology and illustrate how these are used to develop perceptual probes (stimuli) for experimental studies of these dynamic cognitive processes. Some of the basic physical principles of event-related potentials (measurement and analysis) and magnetic resonance imaging (field generation and image reconstruction) will also be covered. The contemporary debate on whether the brain represents a classical or quantum system is discussed in the context of an information-theoretic approach and from the timescales of human perceptual knowledge.

*Please join us for light refreshments
at 4:15pm outside WSC 109.*