

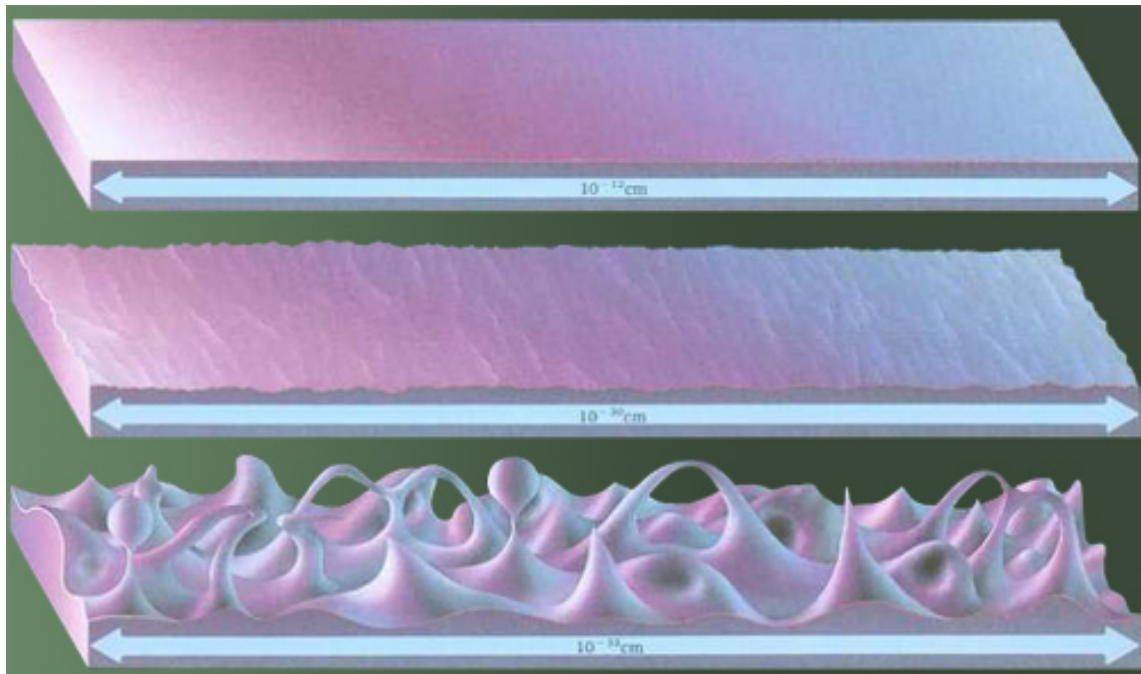
# Physics Seminar

**Brett Bolen**

Dept of Physics & Astronomy  
Western Kentucky University

Monday, March 20, 2006, 4:30pm  
Willet Science Center 101

## The Gulf Between Quantum Mechanics and General Relativity



There are two great pillars of twentieth century physics: Quantum Mechanics and General Relativity. Unfortunately, these two theories seem incompatible with each other at a very fundamental level. In this lecture a brief overview of each theory will be given. Then it will examine why it is so difficult to unite these two theories. Finally two examples of different approaches to quantizing gravity will be given: String Theory and Loop Quantum Gravity.

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