



**DIPARTIMENTO DI FISICA "E.Fermi"**  
UNIVERSITÀ DI PISA  
**CORSO DI DOTTORATO IN FISICA**  
LARGO PONTECORVO, 3 - Edificio B-C  
56127 PISA - ITALY

# **CORSO DI DOTTORATO IN FISICA**

**Martedì 10 maggio 2005**  
ore 15:30

Dipartimento di Informatica  
Aula Gerace - II piano - Ed. C

**Persis Drell**

*Professor and Director  
of Research at Stanford Linear Accelerator Center*

COLLOQUIUM:

## **"The Quantum Universe"**

**Abstract:** Throughout human history, scientific theories and experiments of increasing power and sophistication have addressed basic questions about the universe such as What is the nature of the universe? What are matter, energy, space and time? How did we get here, and where are we going? Modern data and ideas are challenging long held beliefs about matter, energy, space and time as recent experiments have shown us that most of the universe is made of forms of matter and energy unlike anything we see around us on earth and out to the most distant galaxies. Dr. Drell will discuss the revolution underway in the field of particle physics and the quest to explain the universe in terms of the quantum physics which governs the behavior of the microscopic, subatomic world. She will describe new opportunities that have emerged for discovering the fundamental nature of the "Quantum Universe" that we never expected.

S.Leone