

# **The Orange County Italian Cultural Association** ([www.ocica.org](http://www.ocica.org))

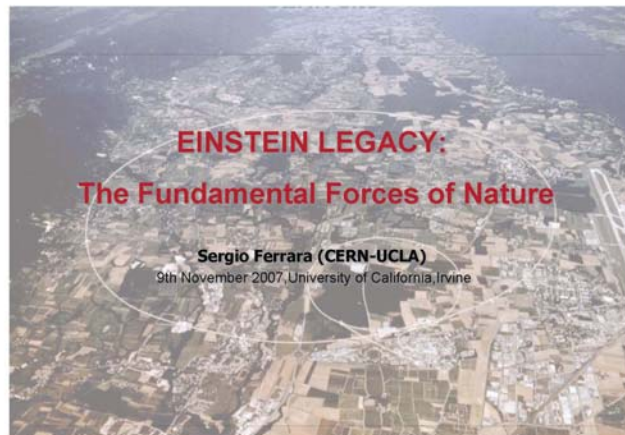
in collaboration with the Italian Cultural Institute of Los Angeles  
and the Schools of Humanities and Physical Sciences at UCI

cordially invites our members and UCI students to a lecture by

## **Professor Sergio Ferrara**



**Friday, November 9, 2007 – 7:00pm**



## **EINSTEIN LEGACY: The Fundamental Forces of Nature**

These years rest in between two unique events in the scientific world. On one side 2005 was made the WORLD YEAR OF PHYSICS to celebrate the centennial of the 1905 "annus mirabilis", when Albert Einstein set the foundation for the theory of relativity and also established the quantum nature of light – the latter work was the main motivation for the Nobel Committee awarding him the Prize in 1922. On the other side, it is the next year that the Large Hadron Collider (LHC) will start operation at CERN, in Geneva, Switzerland: this accelerator (in a ring 27Km long) is the largest smasher of subatomic particles ever constructed by mankind. Its potential discoveries will shed light on the nature of fundamental interactions of matter, at extremely high energies, equivalent to several thousand masses of a hydrogen atom, in conditions similar to the very first instants of our Universe just after the Big Bang, the primordial explosion from which according to modern cosmological theories, space and time, and therefore matter, begun to exist.

**Venue:** UCI – Natural Sciences II rm. 2201 (Bldg. 402, Section F5)  
Parking Lot 12A (\$7 charge) – Section F5 off Bison Ave.  
(See attached UCI map)