



Instrumentation & Measurement  
for Particle Accelerator Lab



Scuola Politecnica e  
delle Scienze di Base



Università degli Studi di Napoli Federico II

**Prof. Walter Scandale**

# Designing and realizing complex experiments: a case study on SPS experiments to test crystal collimation for LHC

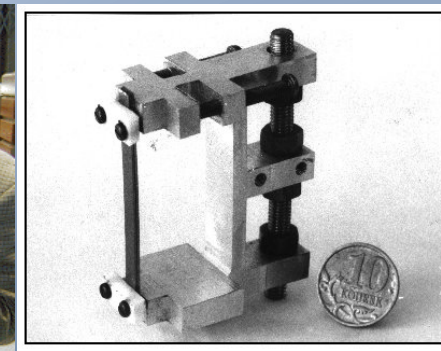
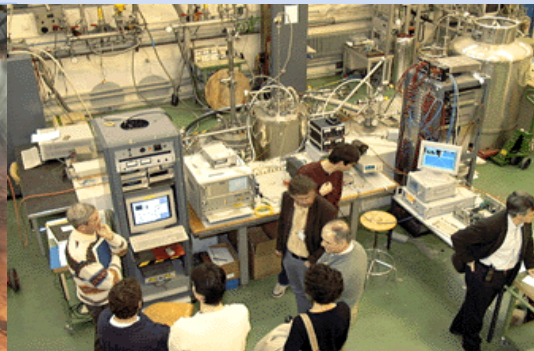
**Aula Softel**

**I Piano Pal. 3/A DIETI**

**7 – 13 Giugno 2017**

**10:30-13:00**

The Course focuses on theoretical and experimental methodologies to be integrated for designing and realizing complex experiments, such as the recent successful crystal-based collimator installed at CERN for the Super Proton Synchrotron of the Large Hadron Collider.



Topics: Applications-oriented topics on large-scale systems and systems-of-systems. Systems engineering, educational standards, processes and methodologies for the systems-of-systems environment. Research opportunities and results relating to systems-of-systems.

**Organized by  
Prof. Pasquale Arpaia**

**Walter Scandale** is Applied Physicist from Nov. 1972 to 1983, and Senior Physicist from 1983 to now at CERN, Geneva. In 1997-2006, he worked to Magnet design and Optimization in the LHC-MMS/MAS Group and in 2004-2007, to the Upgrade of the LHC. During his scientific activity he published 250 scientific publications, 3 books and supervised 25 master and doctoral students. Currently, he is Spokesperson of the UA9-collaboration at CERN, Co-spokesperson of the T980 collaboration in Fermilab, Chicago.

On 9 December 2008, Walter Scandale, received the decoration of Knight of the Order of Merit of the Italian Republic, in recognition of his services to Italy in the field of science.