

ANNUNCIO DI CORSO

Il dr. **Walter Scandale** del CERN terrà un corso dal titolo:

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

<i>Date</i>	<i>Orari</i>	<i>Luogo</i>
<i>07 giugno 2017</i>	<i>10:00-13:00</i>	<i>Sala Riunioni IV piano ed. 3A</i>
<i>08 giugno 2017</i>	<i>10:30-13.00</i>	<i>Sala Riunioni IV piano ed. 3A</i>
<i>09 giugno 2017</i>	<i>09.30-12.30</i>	<i>Aula Softel I piano ed. 3A</i>
<i>12 giugno 2017</i>	<i>09.30-13.30</i>	<i>Aula Softel I piano ed. 3A</i>
<i>13 giugno 2017</i>	<i>10.00-13.00</i>	<i>Sala Riunioni IV piano ed. 3A</i>

Abstract: 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 (UA9) installed at CERN for the Super Proton Synchrotron of the Large Hadron Collider. The focus will be on the most important concepts and how a well-designed design has its role in success during design, construction, measurement and quality assurance of complex experiments. The lessons on the case study of UA9 will deal with: introduction to particle accelerators, highlights of the LHC features, superconductivity and superconducting magnets, crystal-assisted manipulation of high-energy particle beams, crystal-assisted collimation for LHC.

Short CV: Walter Scandale is an Italian physicist active in fundamental research from 1970. He started as an experimentalist in Adone in Frascati. He joined CERN in 1972 to take part to the fixed-target and to the proton-antiproton programmes of the SPS. Later, he was one of the first physicists involved in the Large Hadron Collider project where he was in charge of the optical design until 1993 and deputy group leader of the group responsible for the conception and the procurement of the main superconducting magnets. He was the technical director of the SUPERB project in Italy, aiming at the construction of a new accelerator complex for a B-boson factory. He is presently the spokes-person of a Collaboration UA9 having the mission of developing new methods for hadron beam collimation based on the use of bent crystals.

La partecipazione al Corso costituisce titolo preferenziale per l'assegnazione di borse di studio per svolgere tesi ed attività di ricerca presso il CERN. (info: pasquale.arpaia@unina.it, antonio.moccia@unina.it).