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INTERNATIONAL ICFA MINI-WORKSHOP ON

NONLINEAR DYNAMICS AND COLLECTIVE EFFECTS IN PARTICLE BEAM PHYSICS



CASTELLO ALDOBRANDESCO | ARCIDOSO (GROSSETO)

19-22 SEPTEMBER 2017

The last decade has seen great advances on high brightness charged particle beams linear and nonlinear dynamics, collective effects and their combined use for beam manipulation. These advances have already led to large enhancements of the performance of circular colliders, synchrotron radiation sources, free-electron lasers and inverse Compton scattering light sources. This workshop provides an opportunity for scientists and students to review these advances, identify the areas for further progress, and consider the application of new concepts to future coherent and incoherent sources of electromagnetic radiation.

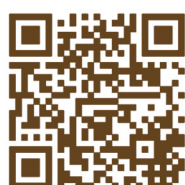
The workshop will focus on the following topics:

- linear and nonlinear particle dynamics in storage rings for colliders and light sources;
- collective effects in storage rings and in linacs for free-electron lasers;
- design concepts of synchrotron light sources, free-electron lasers and Compton/Thomson light sources;
- timing, energy and spectral operational modes complementarity of synchrotron light sources and free-electron lasers.

A discussion led in Italian by Prof. Claudio Pellegrini (UCLA, SLAC) and by Dr. Massimo Cornacchia (SLAC, retired) on "Science and Society" will be open to the public at the 'Teatro degli Unanimi' of Arcidosso on September 22nd at 6:00 pm (free admittance, 99 seats available).

Una "Discussione su Scienza e Società" aperta e rivolta al pubblico, in italiano, sarà coordinata dal Prof. Claudio Pellegrini (UCLA, SLAC) e dal Dr. Massimo Cornacchia al Teatro degli Unanimi di Arcidosso, alle ore 18:00 del 22 Settembre (entrata libera fino ad esaurimento posti).

INFO
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