



“PIERO CALDIROLA” INTERNATIONAL CENTRE FOR THE PROMOTION OF SCIENCE AND INTERNATIONAL SCHOOL OF PLASMA PHYSICS



Third International Conference on SUPERSTRONG FIELDS IN PLASMAS

Villa Monastero, Varenna, Italy
September 19 - 24, 2005

Organized by:

- * COST - European Cooperation in the Field of Scientific and Technical Research
- * Dipartimento di Fisica "G. Occhialini", Università degli Studi Milano-Bicocca, Milano, Italy
- * Piero Caldirola International Center for the Promotion of Science and ISPP, Milano, Italy
- * Istituto di Fisica del Plasma "P. Caldirola", C.N.R., Milano, Italy
- * Dipartimento di Scienze dell'Ambiente e del Territorio, Università degli Studi Milano-Bicocca, Milano, Italy

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Local Organizing Committee:

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| E. Sindoni | elio.sindoni@unimib.it | President ISPP |
| D. Pifferetti | superstrong@ispp.it | Organizing Secretary |

List of Topics:

- 1) Fundamental atomic and plasma processes and nonlinear phenomena in the presence of ultra-intense fields.
 - 2) Relativistic nonlinear optics of ultra-short laser pulses in plasmas.
 - 3) Solid density plasmas, cluster plasmas, fast ions and nuclear physics with intense lasers.
 - 4) Applications of ultra-intense fields: intense X-ray sources, charged particle accelerators, inertial confinement fusion.
 - 5) Applications of superstrong lasers in laboratory Astrophysics.
 - 6) Lasers for ultrahigh intensity Physics.
- A Topical Forum on Medical Applications of ultrastrong laser-matter interaction is being organized.

Contributed Papers:

In addition to the invited talks, poster contributions will be selected on the basis of a one-page abstract.

These abstracts should be sent by **July 8 to:**

M. Lontano lontano@ifp.cnr.it
Fax +39-02-66.173.239
E-mail submission is preferred.

Proceedings of the Conference

The Proceedings of the Conference will be published by the American Institute of Physics in the Conference Proceedings Series.

The instruction booklet as well as Microsoft Word templates and LaTeX classes are available at American Institute of Physics website at

<http://www.aip.org>
<http://www.aip.org/proceedings>

They can be downloaded and will aid the authors the preparation of their papers in camera-ready form. Please be sure to select all templates

and instructions for the correct format, which is the 6 x 9 inch format.

A maximum of 12 pages is allocated for each Invited Paper, while 6 pages for each Contributed Paper.

The original manuscript plus one copy should be hand over to Mrs. Donatella Pifferetti at the Registration Desk.

Registration Fee

A registration fee of **350 €** is requested to all participants.

It can be paid in Varenna at the registration desk.

Credit card cannot be accepted for payments.

Alternatively, the same fee can be paid by **August 20, 2005, by bank transfer to:** Banca Popolare di Lecco, Division of the Deutsche Bank, Via IV Novembre, 23829 VARENNA (LC), Italy

Account opened in favour of "International School of Plasma Physics":

Bank codes (for Italy): no. c/c 9500, ABI 03104, CAB 51830, CIN M

IBAN (bank codes from abroad): IT64 M031 0451 8300 0000 0009 500

SWIFT code: DEUTITM1029

Please, state as motivation of payment: **your full name - Participation "Superstrong 2005"**

All bank expenses are at participants' charge.

The fee covers admission to the conference, all the social events and one copy of the proceedings.

Important dates:

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| Preliminary registration: | 1 April 2005 |
| Final registration: | 8 July 2005 |
| Abstract submission: | 8 July 2005 |
| Manuscript delivery | 19 September 2005 |

For any inquiry, please contact:

For scientific questions:

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For organizing/logistic/administrative questions:

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