



Interaction of Superintense Femtosecond Laser Fields with Atoms, Solids and Plasmas (FEMTO)
European Science Foundation.



WORKSHOP ON

SIMULATIONS OF ULTRA INTENSE LASER BEAMS INTERACTION WITH MATTER

UNIVERSITY OF BORDEAUX I, FRANCE, April 14 - 16, 2003

ORGANISED BY

- Polytechnic University of Madrid, Spain
- University of Bordeaux I, France
- University of Milano Bicocca, Milano, Italy

PURPOSE

The main motivation of the workshop is to join researchers working in Europe on simulations of intense laser-matter interactions and inertial fusion energy in order to discuss the state of the art of simulations and to envision future collaborations or common projects, in particular in view of the 6th Research Framework Programme.

The topics to be discussed will cover a wide scope, from PIC simulations to multidimensional fully integrated hydrodynamic codes. Specifically, the workshop will be devoted to the following topics :

- simulations of laser-plasma interactions with PIC and hybrid codes
- fast electron transport in solids and pre-compressed plasmas
- last developments in hydrodynamic codes for IFE
- fuel compression and target design for IFE and fast ignition
- simulations of hydrodynamic instabilities of IFE targets

CO-ORGANISERS

- D. Batani, University of Milano Bicocca, Italy
- J. Honrubia, Polytechnic University of Madrid, Spain
- V. Tikhonchuk, University of Bordeaux I, France

FUNDING AND SUPPORT

The workshop is supported by *the European Science Foundation*. There is a budget to pay travel expenses for a number of European participants, including reduced air fares, accommodation and meals during the workshop. The speakers, graduate students and post-docs will have preference to get these travel grants.

SPONSORED BY :

European Science Foundation, University of Bordeaux I and CEA.

LIST OF SPEAKERS

- A.A. Andreev, Institute for Laser Physics, Russia
- S. Atzeni, University of Rome 'La Sapienza', Italy
- M. Basko, ITEP, Moscow, Russia
- F. Califano, University of Pisa, Italy
- B. Canaud, CEA, Bruyeres-le-Chatel, France
- C. Cherfils, CEA, Bruyeres-le-Chatel, France
- J. Davies, Golp, Lisbon, Portugal
- C. Deutsch, University of Paris VI, Orsay, France
- E. D'Humieres, CEA, Bruyeres-le-Chatel, France
- G. Ebrard, CEA, Bruyeres-le-Chatel, France
- L. Gremillet, CEA, Bruyeres-le-Chatel, France
- J. Honrubia, Polytechnic University of Madrid, Spain
- M. Kaluza, MPQ, Garching, Germany
- H.J. Kull, RWTH Aachen, Germany
- J. Limpouch, Czech Technical University, Prague
- J.P. Matte, INRS-Énergie et Matériaux, Canada
- P. Mulser, Technical University, Darmstadt, Germany
- Ph. Nicolai, CEA, Bruyeres-le-Chatel, France
- M. Passoni, University of Milan, Italy
- A. Pukhov, University of Düsseldorf, Germany
- R. Ramis, Polytechnic University of Madrid, Spain
- J. Ramírez, Polytechnic University of Madrid, Spain
- C. Riconda, Ecole Polytechnique, Palaiseau, France
- G. Schurtz, CEA, Bruyeres-le-Chatel, France
- L. O. Silva, Golp, Lisbon, Portugal
- Y. Saillard, CEA, Bruyeres-le-Chatel, France
- J. Sanz, Polytechnic University of Madrid, Spain
- T. Schlegel, GSI, Darmstadt, Germany
- V. Tikhonchuk, University of Bordeaux I, France
- S. Weber, CEA, Bruyeres-le-Chatel, France

REGISTRATION AND FURTHER INFORMATION:

- V. Tikhonchuk, University of Bordeaux I: tikhon@celia.u-bordeaux.fr
- C. Termens, University of Bordeaux I: termens@celia.u-bordeaux.fr
- J. Honrubia, Polytechnic Univ. Madrid: honrubia@etsii.upm.es

No registration fee requested. Since the number of participants is limited we kindly ask you to register as soon as possible.

DEADLINE FOR REGISTRATION : March 10, 2003