

Announcement and call for papers - 13 July 2004
US-Japan exchange 2004
New directions and physics for compact toroids

Conference and workshop

Several new directions in compact toroid (CT) research have recently emerged, including neutral-beam injection, rotating magnetic fields, energetic beam injection, helicity injection from external electrodes, and high density configurations for applications to magnetized target fusion. CT experimental programs in both the US and Japan have also showed substantial progress in the control and sustainment of CT's. The proposed exchange is a workshop to bring together scientists from institutions in the US and Japan who are researching the various and possibly complementary types of CTs. The participants represent facilities on which significant experiments are now underway: FIX, TS, TCS, SSPX, HIT, FRX-L, and HIST. Both FRC, spheromak, spherical tokamaks, and other experiments are represented.

Conference location

LaFonda Hotel, Santa Fe, NM
www.lafondasantafe.com
reservations call 800-523-5002

contact information

Japan: Masayoshi Nagata Univ. of Hyogo, nagata@eng.u-hyogo.ac.jp
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All conference information including local arrangements, hotels, transportation, and maps will be made available at the "CT2004" link at <http://wsx.lanl.gov>. Please check the web page for up-to-date information.

Duration and dates

Tue 14 Sep (full day), Wed 15 Sep (full day), Thur 16 Sep (half day) 2004

Travel

Albuquerque (ABQ) is the nearest large airport, with shuttle vans to Santa Fe (≈1 hour ride).

How to register and submit abstracts

Prospective participants should email the following information to Intrator@lanl.gov, with "CT2004" in the subject line:

- 1) Name, institution, address, email address, and telephone number by July 31st, 2004.
- 2) Title of paper, subject area (suggestions listed below), authors, institutions in MS Word, LaTeX, Acrobat pdf format, by July 31st, 2004.
- 3) One page abstract containing subject area (see below), title, speaker, authors, institutions in Acrobat pdf format, by August 28, 2004.
- 4) Presentation file in Acrobat pdf format, by September 14, 2004.

Presentations

All presentations will be oral, but there will be poster presentation space for extended discussions. Please indicate on the abstract the topical area(s) of most relevance to your abstract, e.g.

- Experiments
- Theoretical and computer modeling
- Plasma diagnostics
- Technology developments
- Upcoming research plans
- Concepts and issues for future experiments
- Fusion devices

Tours of Los Alamos National Laboratory (LANL)

A tour of LANL will transpire the afternoon of Wed, 16 Sep, with box lunches during a bus ride up the hill road to LANL. We will see the experiments FRX-L, Relaxation Scaling Experiment (RSX), Flowing Magnetized Plasma Experiment (FMP), three beam fast pulse laser (TRIDENT). We would like a listing of USA citizens, however we require an advance list (at least 3 weeks lead time) of foreign nationals for LANL approval process. Please contact T. Intrator for details.

Other activities

Tour of Los Alamos National Laboratory, afternoon of Wed 16 Sep 2004. Hotel LaFonda is downtown at the Plaza, with government rate available for all attendees' hotel rooms. Cultural pursuits abound in Santa Fe, Taos, including art, concerts, opera, Native American pueblos and archaeological sites, Indian Market at the Plaza, numerous restaurants, etc. Striking natural setting near the Sangre de Christo mountains, hiking and camping here and in the Jemez mountains near Los Alamos, and Colorado is 2 hours away.