PAN-AMERICAN ADVANCED STUDY INSTITUTE (PASI)

NEW STATES OF MATTER IN HADRONIC INTERACTIONS

CAMPOS DO JORDAO, SAO PAULO, BRAZIL — JANUARY 7-18, 2002

The Pan-American Advanced Institute courses will be held at Hotel Leao da Montanha, Campos do Jordao, Sao Paulo, Brazil (between Sao Paulo, and Rio de Janeiro) in picturesque mountains of the coastal area.

It will involve approximately 40 graduate students from the Americas, funded by US-program in a two-week presentation of introductory material and current research results in this rapidly developing field. Other students are expected to attend, funded by local and/or their research programs.

Courses will span from the very elementary and introductory material through the latest theoretical and experimental research results.

The interaction among students and researchers should help in laying the groundwork for future collaborations. All students and lecturers will be housed in a unique conference venue and all activities of the school will be jointly undertaken. Lecturers are strongly encouraged to spend the entire period of the course on site.

We are expecting all participants on Monday morning, January 7, 2002 at the international airport in Sao Paulo, and will offer bus transportation to the location of the institute.

The meeting will close after lunch on Friday, January 18. In the afternoon we will provide bus transportation to the airports in Rio de Janeiro and Sao Paulo. Watch for web updates of further arrangements.

COURSES

- E+T: Quarks and hadron structure.
- E: Accelerators, detectors, and experimental methods
- E: RHIC: physics program overview
- E: Hadronic particles production
- E: J/psi, photons, and dilepton production
- E: CERN overview: new phase of matter
- E+T: HBT, correlations, and fluctuations
- E: RHIC: latest results of run II
- R: QGP in astrophysics and cosmology
- R: QCD based effective theories
- T: Quantum Chromodynamics
- T: Vacuum structure
- T: Relativistic gases
- T: QCD at finite temperature
- T: Transport theory and hydrodynamics of QGP
- T: Partons and heavy ions
- T: Strangeness and hadronic observables
- T: J/psi, onium, photons, and dilepton production

There will be additional seminars on current research topics
T=Theory, E=Experiment, R=Review

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pasi@if.ufrj.br Fax: ++55-21-562 7948
pasi@physics.arizona.edu Fax: ++1-520-621 4721
http://www.physics.arizona.edu/~pasi/

PASI Conference Coordinator
University of Arizona, Department of Physics
Tucson, AZ 85721, USA