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2nd ANNOUNCEMENT

3rd International Workshop on Beam Orbit Stabilization 2004

December 6-10, 2004,

Hotel Kirchbühl\*\*\*\*, Grindelwald, SWITZERLAND

Dear Colleague,

You are kindly invited to register for the "3rd International Workshop on Beam Orbit Stabilization 2004 - IWBS2004" which will be held at the Hotel Kirchbühl\*\*\*\* in Grindelwald, Switzerland, on December 6-10, 2004.



Registration for the workshop and the hotel accommodation is handled by:

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Participants are kindly requested to register through the web:  
<http://iwbs2004.web.psi.ch/registration/>

Deadline: November 1, 2004

For details about accommodation, scheduled social events and excursions see:  
<http://iwbs2004.web.psi.ch/accommodation/>

The tentatively planned sessions are:

- Facility Reports: The facility reports on orbit stabilization highlight the achievements/plans at present and future light sources.
- Noise Source Suppression: Proper specifications/modifications for/of various accelerator components allow to minimize the initial orbit motion without feedback.
- Orbit Measurement/Correction: The remaining orbit motion needs to be measured and corrected. Especially the movement of insertion devices can induce significant orbit noise which needs to be compensated by means of feedforward and/or feedback schemes.
- Top-up & Sub-micron Stability: "Top-up" operation guarantees a constant heat load on all accelerator and beamline components and thus allows for high mechanical stability. Together with the utilization of fast orbit feedback systems "top-up" operation makes it possible to achieve sub-micron stability on a scale from milliseconds to days.
- Stability Requirements in 4th Generation Light Sources: Position and energy stability requirements in linac based 4th generation light sources are demanding and require the use of slow and fast feedback systems. Can these light sources profit from the experience gained at storage ring based sources ?
- User Experience: Two SLS beamline scientists kindly agreed to share their experience with the workshop participants. They will try to put some light on the orbit stability requirements for experiments at their beamlines.
- Discussion: It is intended to leave sufficient room for discussions throughout the workshop.

The tentative program schedule can be found on the web:  
<http://iwbs2004.web.psi.ch/program/>

Due to constraints imposed by the chosen workshop location the number of participants is limited to ~40. It is anticipated that participants are volunteering to give a presentation in one of the listed sessions. We would like to cover most of the existing or planned facilities which are aiming for high orbit stability.

We are looking forward to your participation.  
Sincerely Yours,

Michael Böge

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