



<http://iwbs2004.web.psi.ch/>

## ANNOUNCEMENT

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3rd International Workshop on Beam Orbit Stabilization 2004

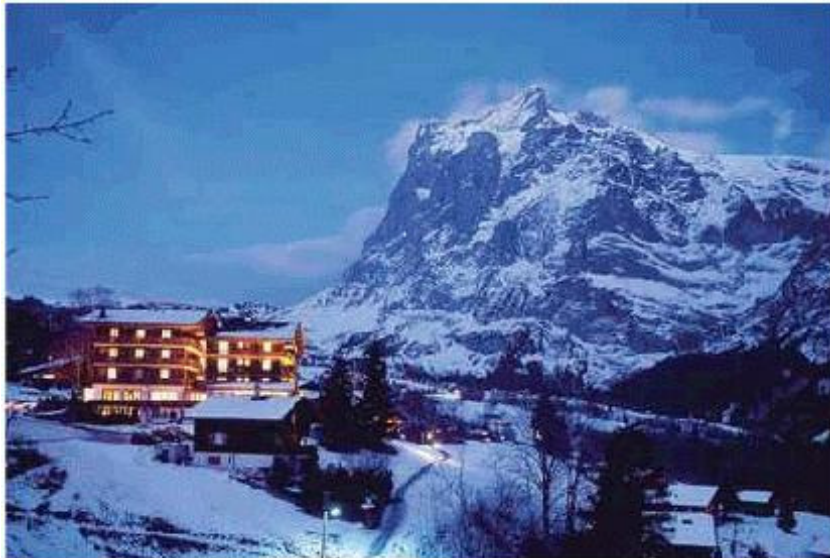
December 6-10, 2004,

[Hotel Kirchbühl\\*\\*\\*\\*](#), [Grindelwald](#), [SWITZERLAND](#)

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Dear Colleague,

The "3rd International Workshop on Beam Orbit Stabilization 2004 - IWBS2004" will be held at the [Hotel Kirchbühl\\*\\*\\*\\*](#) in [Grindelwald](#), [Switzerland](#), on December 6-10, 2004:



The [Paul Scherrer Institut \(PSI\)](#) operating the [Swiss Light Source \(SLS\)](#) has the honour to continue the series of two very successful IWBS workshops hosted by the [SPRING-8](#) Accelerator Division in [2001](#) and [2002](#).

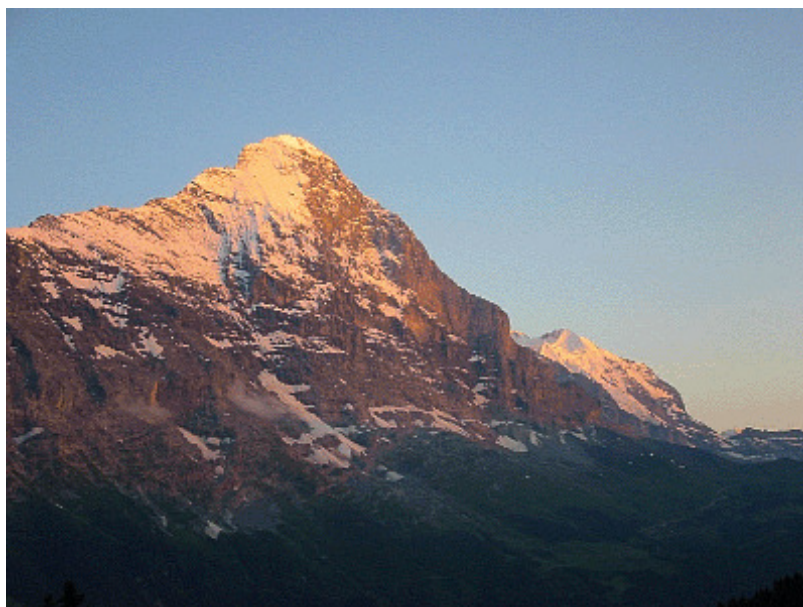
Excellent orbit stability is one of the key issues in 3rd generation light sources since the orbit has to be stabilized typically to 1/10th of the beam size at the location of the insertion devices which translates to sub-micron stability requirements over time periods ranging from milliseconds to days. This is accomplished by the careful design of all accelerator components including girders, magnets and power supplies, by operating in "top-up" mode, which guarantees a constant thermal load, and by active stabilization by means of a fast orbit feedback (~kHz sampling rate).

Similar goals have to be met in damping rings for linear colliders in order to get the desired low emittance.

The upcoming linear accelerator based 4th generation light sources also have tight tolerances on their residual trajectory jitter which induces the need for slow, fast and "very fast" bunch-to-bunch feedbacks.

The aim of this workshop series is to give people involved in orbit stability issues an opportunity to share their experiences, identify problems and discuss solutions.

We hope that the workshop location with its breath taking view on the Eiger north face will serve as a stimulating environment for a fruitful workshop:



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We are looking forward to your participation.  
Sincerely Yours,



Michael Böge 

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