



# Grand Challenges in Accelerator Optimisation

**CERN, Switzerland: 26<sup>th</sup>/27<sup>th</sup> June 2013**

## Speakers include

Green and Compact Magnet Technology for Optimisation of Particle Accelerators  
*Dr. Bjarne Roger Nielsen, CEO, Danfysik*

Challenges of High Intensity Accelerators  
*Dr. Mats Lindross, Head of Accelerator Division, ESS*

Research on Ultra-short Timescales – FELs  
*Dr. Daniel Ratner, SLAC*

Laser Acceleration – Towards Highest Gradients  
*Prof. Luis Rosso, Director, CLPU*

Unravelling the Secrets of the Universe  
*Dr. Richard Hawkings, CERN*

Accelerators are key instruments for fundamental research, health and industry applications. International collaboration is very important for their continued optimisation.

This two-day international workshop will provide an overview of the current state of the art in beam physics, numerical simulations and beam instrumentation and highlight existing limitations. It will discuss research and development being undertaken and ambitions to further improve the performance of existing and future facilities.

In addition to invited talks, there will be industry displays and a special seminar covering recent LHC discoveries. All participants will have an opportunity to contribute a poster.

**This event is open to all and free of charge. Advance registration is required; places are strictly limited.**

Full details and registration:

**[www.opac-project.eu](http://www.opac-project.eu)**

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