



Joint LLC Seminar

Thursday February 12, 15:15
The Rydberg Lecture Hall, Dep. of Physics

Wolfgang Sandner

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What is special about ELI?

Europe on its way to build the Extreme Light Infrastructure

Roughly five decades after invention of the laser the international scientific community has joined forces to build the world's most powerful lasers for scientific research, the "Extreme Light Infrastructure" ELI. It thus follows other scientific disciplines which, at least partially, depend on supra-national efforts to explore their ultimate frontiers - in this sense, ELI may be considered the "CERN of laser research".

Technically, ELI's high-power lasers will push the present frontiers in power, intensity and repetition rate by at least a factor of ten. Scientifically, due to the highly non-linear nature of ultra-intense light matter-interactions, a wealth of new research opportunities arises, ranging from novel laser-plasma particle acceleration mechanisms, secondary radiation generation from THz to Gamma rays, ultra-short radiation pulses in the atto-second regime, and laser-based nuclear physics, up to first exploration of QED effects in ultra-intense laser fields and "breaking the vacuum".

**The seminar is suited for a broad audience
and open for everybody**

**The Rydberg Lecture Hall is located at the Department of Physics,
Professorgatan 1
Coffee and refreshments will be served
before the seminar, from 15:00**

Most Welcome!

 **Lund
Laser Centre**



United Nations
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2015

