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## **Instruments for condensed matter studies at European XFEL and FLASH**

*Friday, 16 September 2011 14:30 (20 minutes)*

Updated radiation parameters and beamline layouts for the European XFEL facility under construction in Hamburg, Germany, will be presented. Furthermore, initial thoughts are introduced about the layout of the scientific instruments, with emphasis on applications in condensed-matter. The current status of condensed-matter research at FLASH and the LCLS will be reviewed and an outlook to major areas of application is given. One repeatedly discussed issue is the sample excitation by the intense x-ray FEL pulses, in particular for the high repetition rates available at the European XFEL. Simulation results for various configurations will be discussed.

### **Please specify the session**

XFEL Experiments in Condensed Matter

### **Please specify poster or talk**

talk

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**Session Classification:** XFEL Experiments in Condensed Matter

**Track Classification:** XFEL Experiments in Condensed Matter