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**Doctoral Programme**

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## Guest Lecture

### Title:

“Probing Excitations in Strongly Correlated Electron Materials: Recent Highlights  
Obtained at PSI’s Large-Scale Facilities”

**Speaker:** [Prof. Dr. Joël Mesot](#)

**Address:** Director of the PSI, Villigen; Laboratory of Solid State Physics of ETH  
Zürich; Head of Laboratory for Synchrotron and Neutron Spectroscopy  
of Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

**Date:** Friday, 24<sup>th</sup> of June 2016

**Time:** 14:30

**Place:** Seminar Room CBEG02 (387, Photonics); Gußhausstraße 27

### Abstract:

The Paul Scherrer Institute, PSI, is the largest research center for natural and engineering sciences within Switzerland. One of its main missions is to conceive, realize and run so-called large-scale facilities. With muon, neutron and photon beams PSI offers yearly, on a single site and within a single organization, three complementary techniques to thousands of Swiss and international researchers from academia and industry. About two thirds of the performed experiments are taking place in the field of materials science, of which a large portion related to strongly correlated materials. In this talk I shall present highlights obtained on various materials made possible thanks to recent technical breakthroughs.

The last part of the presentation will be dedicated to the planned next large-scale facility of PSI: the X-ray free electron laser SwissFEL and its future experimental capabilities.