

Announcements



PSI-FELLOW/COFUND – International Fellowship Program for Postdocs at Paul Scherrer Institut

The new EU co-financed funding program PSI-FELLOW addresses international postdocs and offers these researchers the opportunity to perform their innovative scientific project in one of the four attractive scientific fields tackled at PSI: i) materials and matter, ii) life-

sciences, iii) energy and environment and iv) accelerator technologies. The application has to be made together with a senior scientist at PSI, who will act as the fellow's mentor. The second call started on June 1, 2014 with deadline on August 4, 2014.

Please keep updated: <http://www.psi.ch/psi-fellow/>

PSI Summer School on Condensed Matter Research

The 2014 edition of the PSI Summer School on condensed matter physics is being dedicated to some of the main topics addressed at large-scale user facilities, such as neutron and muon sources or synchrotron photon sources: Exploring time, energy and length scales in condensed matter. International experts and PSI staff members will introduce and deepen your knowledge not only about these scientific topics but also about the main methods applied to understanding the phenomena which are presently at the forefront of modern solid-state physics and chemistry. The school will be organised from **August 9-15, 2014** on the premises of the Institut Montana Zugerberg (international boarding school), Zug, Switzerland. Following the school, practical training at PSI is being offered to a limited number of participants.

More details: <http://www.psi.ch/summerschool>

Research highlight



Phase contrast improves mammography

Zhentian Wang et al., Nature Communications, published online 15th May 2014. DOI: [10.1038/ncomms4797](https://doi.org/10.1038/ncomms4797)

Phase contrast X-ray imaging has enabled researchers at ETH Zurich, the Paul Scherrer Institute (PSI) and the Kantonsspital Baden to perform mammographic imaging that allows greater precision in the assessment of breast cancer and its precursors. The technique could improve biopsy diagnostics and follow-up.

The researchers have succeeded in advance phase contrast X-ray mammography, a new imaging technique for mammography. In addition to the current technology, phase contrast X-ray mammography can distinguish between the different types of microcalcifications microscopically observed in breast tissue and help assign them to malignant lesions. An advantage of phase contrast X-ray technology is its detailed high-contrast imaging. In the future, this technique can aid physicians to determine in a non-invasive way where premalignant and malignant breast lesions are most likely located.

More details: <http://www.psi.ch/media/human-health>