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Supplementary information

SNSF Research for SwissFEL

A non-exhaustive selection of projects linked to the SwissFEL at the Paul Scherrer Institute (PSI) and supported by the Swiss National Science Foundation (SNSF).

Observing the fastest processes in nature

- The National Centre of Competence in Research (NCCR) "[Molecular Ultrafast Science and Technology](#)" (MUST) is developing tools to observe and control atoms and electrons. SwissFEL is one of them.

Virtual reality model

- To help society understand the importance of SwissFEL as a new research tool, the SNSF supported the creation of "[SwissFEL in a virtual reality](#)" model with its funding scheme Agora.

Projects of Standfuss Joerg and Schertler Gebhard

- Standfuss Joerg (PSI): [Structural impact of pathological mutations on the GPCR rhodopsin and its complex with arrestin](#), Project Funding.
- Standfuss Joerg (PSI): [Structural dynamics of 7TM proteins probed by serial femtosecond crystallography](#), Project Funding.
- Schertler Gebhard (ETH Zürich / PSI): [Serial femtosecond crystallography of GPCR signaling systems](#), Project Funding.

Other current PSI projects

- Hauri Christoph (PSI, SNSF Professorship at EPFL from 2010 to 2015): [High-Power Ultra-Broadband and Narrowband THz Photonics Based on Molecular Crystals](#), Bilateral programme with South Korea.
- Hauri Christoph (PSI, SNSF Professorship at EPFL from 2010 to 2015): Coherent spin excitations in complex compounds probed with a table-top XUV laser, Project Funding.
- Knopp Gregor (PSI): Towards applications of nonlinear X-ray spectroscopy, Project Funding.
- Radi Peter (PSI): Mapping the electronic structure of homonuclear transition metal dimers with four-wave mixing techniques, Project Funding.
- Vicario Carlo (PSI): [Ultrafast light modulator driven by strong and tunable THz field](#), Bilateral programme with Russia.

Other SNSF projects

- All SNSF projects in the open SNSF grant database P³ mentioning "SwissFEL" <http://p3.snf.ch/Default.aspx?query=swissfel>