

PAUL SCHERRER INSTITUT



# Open Day

One finger on the pulse of research  
Sunday, 18.10.2015, 10 a.m. – 5 p.m.

**Scientists offer an exciting glimpse into their research**

The new large-scale facility SwissFEL  
Neutrons and synchrotron light unveil the invisible  
State-of-the-art cancer treatment facilities  
Radiation and radiation protection  
Energy storage of the future  
“Shaken, not stirred!” – James Bond in the crosshairs of physics  
Apprenticeship at PSI  
Grand physics show on the open air stage

Paul Scherrer Institut, 5232 Villigen PSI, Switzerland, [www.psi.ch](http://www.psi.ch)



# at PSI

## Also open

Visitor's centre psi forum  
School Lab “iLab”  
Restaurant and cafeterias  
Children's attractions

Free shuttle buses every  
10 minutes from the railway  
station in Brugg to PSI  
in Villigen and back again.



## One finger on the pulse of research

Switzerland's largest research centre is to open its doors on Sunday, 18 October 2015. The general public will have an exclusive opportunity to feel the pulse of top-flight research at PSI's large research facilities and labs at first hand.

Why do tiny dust particles have a global impact? Which molecules are responsible for vision? How do archaeologists stand to benefit from the spallation neutron source (SINQ)? Why is treating tumours with protons so unique? Used for energy storage, can hydrogen help satisfy our growing energy demand? What does particle physics research entail? Why is our planet too curved for the new Swiss X-ray free-electron laser SwissFEL, where you can visit the tunnel at the open day? And why is a 2,000-HP Maybach diesel generator on permanent standby?

PSI's dedicated scientists will be on hand to answer these questions and many more on 18 October.

The physicist duo "Stella Nova" will also dazzle you with an extraordinary physics show on the open air stage. And discover the physics behind the James Bond films in our large lecture theatre. Visitors will also have the opportunity to immerse themselves in the experimental world of fire, smoke and light at an experimental lecture.

### Talks in the auditorium

- 11 a.m. Fire, sound and smoke: an experimentation show
- Midday Mysterious elementary particles – PSI hot on the trail of the Big Bang
- 1 p.m. Fire, sound and smoke: an experimentation show
- 2 p.m. "Shaken, not stirred" – James Bond in the crosshairs of physics
- 3 p.m. Energy Strategy 2050 and the importance of energy storage
- 4 p.m. What PSI's microscopes can teach us about living cells: an introduction for children and adults