



10 Years of Photo Electrons at PITZ.

**Frank Stephan (DESY)
for the PITZ Collaboration**

**Tuesday, 17 January 2012, 16:00 h
DESY Auditorium**

On January 13th, 2002, the first photo electrons were produced at the newly constructed Photo Injector Test facility at DESY, Zeuthen site (PITZ). The talk starts with a motivation why the development of high brightness electron beam sources is a key requirement for the successful operation of short wavelength, high brilliance free electron lasers like FLASH and the European XFEL. It also summarizes the state-of-the-art of photo injectors in 1999 when the decision for building PITZ was taken. Then a short historical overview of the photo injector developments taking place in Zeuthen is given an important scientific milestones and deliveries are highlighted. Special emphasis is given to the experimental results of 2011 which have set a new benchmark for photo injector developments worldwide. The talk closes with some outlook on scientific and technical questions to be addressed at PITZ in future.

•Coffee, tea and cookies will be served at 15:45h

•After the seminar there is a chance for private discussions with the speaker over soft drinks and pretzels

