TEMPO beamline and Slicing project @ SOLEIL synchrotron Radiation Source

Fausto Sirotti

TEMPO beamline and Slicing project @ SOLEIL sycnchrotron Radiation Source, L'Orme des MerisiersSaint Aubin - BP 4891192 Gif sur Yvette CEDEX France.

Email: fausto.sirotti@synchrotron-soleil.fr

A femtosecond slicing experiment is planned at SOLEIL since the beginning of this year. Femtosecond X-ray pulses will be available at least on two SOLEIL beamlines to cover the soft and hard x-rays regions. In the soft X-ray regime the sliced pulses will be available at the TEMPO beamline dedicated to time resolved experiments.

I will present the main characteristics and the first results obtained on the TEMPO beamline which is operational since the beginning of 2008 along with the performances expected with the SOLEIL Slicing project in the sub-picosecond time scale.