



University of Nova Gorica

Amphitheatre Lecture Room - Ajdovščina, Vipavska 11C

Wednesday, June 4th 2014

11.00

Future high resolution time and angular resolved photoemission using Angular Resolved Time of Flight methods

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A recent break-through for using storage ring synchrotron radiation (SR) facilities for short pulse time resolved photoelectron spectroscopy has been achieved by a collaboration between Uppsala University and HZB- BESSY II in Berlin. The break-through is founded on two concepts.

- i) A pulse picking technique, developed at HZB in Berlin, allowing the isolation at all undulator beamlines of one very short (down to 1 ps) x-ray pulse. This provides single bunch capabilities for time resolved studies during regular operation of the synchrotron radiation facility.
- ii) The development in Uppsala of a new generation of high resolution time of flight electron spectrometers (ARTOF) with much improved transmission. We have created a common research platform for exploring the opportunities: The Uppsala Berlin joint Laboratory (UBjL). UBjL will be the basis for a large number of international collaboration projects.

In the talk I will give a review of the ARTOF development and will present the recent results on pulse.



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