

Short biography of Tonya Vitova



I completed my PhD in the Synchrotron Radiation Group under the supervision of Prof. Josef Hormes at Bonn University, Germany. In 2008 I moved to the group of Prof. Melissa Denecke at the Karlsruhe Institute of Technology (KIT), Institute for Nuclear Waste Disposal (INE). Since July 2011 I am the head of the “High Resolution X-ray Spectroscopy Group” at INE, KIT - <https://www.ine.kit.edu/945.php>. The group has made available for the actinide community a Johann type, five analyzer crystals XES spectrometer installed at the ACT station of the CAT-ACT beamline at the KIT Light Source, Karlsruhe, Germany. We develop and apply actinide M and L edge HR-XANES and RIXS techniques to reveal electronic and geometric structural properties of actinide systems with relevance for example for the environmental behavior of the actinide elements. Currently, we are working on our ERC Consolidator Grant project “The ACTINIDE BOND properties in gas, liquid and solid state”.

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