

# Short course on quantitative analysis of XANES

July 10-11, 2010

**Location:** Hugh Dempster Room 301, University of British Columbia

## Program

### **July 10, 2010**

*Lectures 1-3:* Presentation of the codes. Main ideas, approximations, possibilities and limitations.

**9-30** Lecture 1: G. Smolentsev. Fitl.

**10-15** Coffee break

**10-30** Lecture 2: J.J. Rehr. FEFF

**11-15** Lecture 3: Y. Joly. FDMNES

**12-00** Lunch time

*Tutorials 1-2:* XANES calculations for known structures. What should I do to achieve good agreement with the experiment?

**13-30** Tutorial 1: Y. Joly. FDMNES

**15-00** Coffee break

**15-20** Tutorial 2: J.J. Rehr and J. Kas. FEFF

**16-50** Tutorial 3: G. Smolentsev. Basic features of Fitl. (1h)

### **July 11, 2010**

**9-30** Lecture 4: G. Smolentsev. Applications of the XANES fitting for local structure refinement

**10-30** Coffee break

**10-45** Tutorial 4: G. Smolentsev. XANES fitting using Fitl.

**12-15** Lunch time

**14-00** Tutorial 5: G. Smolentsev. XANES fitting using Fitl (continuation).

**16-00** Coffee break

**16-20** Tutorial 6: G. Smolentsev. Analysis of several case studies including time-resolved experiments and discussion of the tasks prepared by the participants(1.5h)