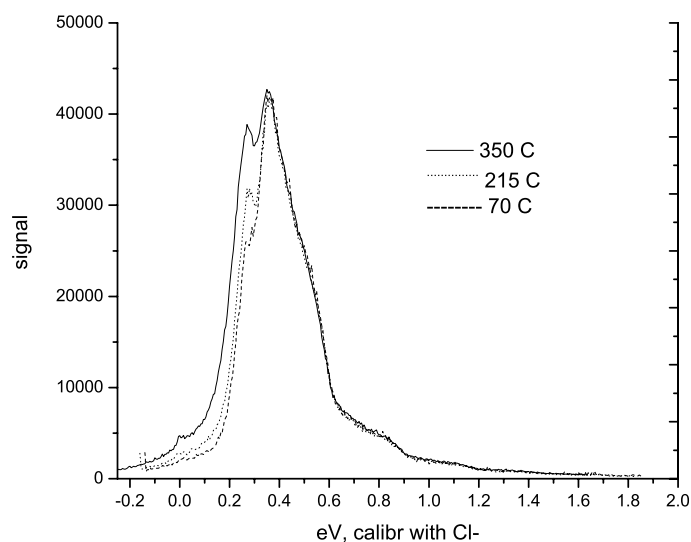


STSM Visit Report for Jiri Horacek

The purpose of my visit to the Institute for Ion Physics University of Innsbruck, Austria, was to take part in the measurement of the temperature dependence of the dissociative electron attachment to HBr and DBr molecules. During my visit we had to solve several problems related to the measurement: 1. to find out why the energy calibration based on the use of CCl₄ molecules yielded an incorrect position of the dissociative attachment peak, 2. to fix the calibration of the electron beam, 3. to discuss the role of the energy spread of the electron beam, 4. to discuss possible ways how to extend the range of temperatures available including the cooling of the capillary with the liquid nitrogen, 5. to prepare a draft of a joint paper to be submitted probably to the Journal of Physics B. The preliminary spectra obtained are very promising and we plan to write a joint paper soon.

The collaboration with the Institute for Ion Physics is highly apprized and the results obtained are of high quality. I hope that this extremely successful collaboration will continue in the future.

Preliminary HBr results obtained are in the figure below.



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