Introduction to Mössbauer spectroscopy and some selected applications of the method for catalysts' studies

(proposed preliminary program for a condensed course to be held at Dalian Institute of Chemical Physics by prof. Károly Lázár – Centre for Energy Research, Budapest, Hungary)

Tentative schedule

05/11/2019		
06/11/2019		
07/11/2019		

1.1. Basics of Mössbauer eff	ect
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1.2. Basics of Mössbauer spectroscopy (MS)

Experimental techniques

- 1.4. Evaluation of spectra (description with Lorentz lines distribution of parameters other codes)
- 1.5. Implementation of various techniques, performance of experiments
- 1.6. History short retrospection MEDC
- Part 2. Mössbauer spectroscopy of catalysts
- 2.1. Assessment of MS from the aspect of catalysts' studies (with respect to catalytic processes)
- 2.2. Practical accomplishment in situ cells

2.3. Selected examples for catalysts studies

Metals and alloys (Fisher-Tropsch, ⁵⁷Co emission HDS, several Pt-Sn, Au-Sn, Rh-Sn)

197</sup>Au Mössbauer spectroscopy

__xides (spinels, zeolites, mesoporous catalysts, MOF-s)

____ (Prussian blue, single atom catalysts)

3. Summary

(Károly Lázár)