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UNIVERSITÄT
MÜNCHEN

Study Questions
Biophysical Chemistry/Molecular Biophysics
Winter Semester 2020/2021
Preparation for Lecture 7

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Department Chemie
Prof. Don Lamb, PhD

Reading:

Lecture Notes of Prof. Dr. Hans Frauenfelder, Biological
Physics, Appendix B
(Physics 450, University of Illinois at Urbana-Champaign)

Copies of the selected pages are available in the library or on moodle.lmu.de

Questions:

- 1) Which thermodynamic variables are extensive, and which are intensive?
- 2) What is the definition of enthalpy?
- 3) What is the order of magnitude of the thermodynamic energy fluctuations for a typical protein?
- 4) What is the Fluctuation-Dissipation Theorem?