

Information Theory II

Spring Semester 2019

Prof. Dr. A. Lapidoth / Prof. Dr. S. Moser

Signal and Information
Processing Laboratory

Institut für Signal- und
Informationsverarbeitung



Information about the Course

<http://www.isi.ee.ethz.ch/teaching/courses/it2.html>

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Lectures Thursdays, 3.15 – 5.00 pm in ETZ E9

Tutorials Thursdays, 1.15 – 3.00 pm in ETZ E9

Prerequisites • Solid foundation in probability and calculus
• Pleasure with mathematics
• English (lectures and tutorials are in English)
• Information Theory I

Lecture Notes Thomas M. Cover and Joy A. Thomas: *Elements of Information Theory*, 2nd Edition, John Wiley & Sons, 2006.

Tutorials The assistant explains and provides hints for the weekly homework exercises. Exercises may be handed in one week after the assignment (no Testat).

Exam The exam is oral (30 min, in English).

Supplementary Literature

- Stefan M. Moser: *Information Theory (Lecture Notes)*, 6th edition, 2018.
- Stefan M. Moser: *Advanced Topics in Information Theory (Lecture Notes)*, 3rd edition, 2018.
- Abbas El Gamal and Young-Han Kim: *Network Information Theory*, Cambridge University Press, 2011.
- Gerhard Kramer: *Topics in Multi-User Information Theory*, Foundations and Trends in Communications and Information Theory, vol. 4, no. 4/5, pp. 265–444, 2007.