



BENESCO

Bern Network Epilepsy Sleep Consciousness

LECTURE SERIES ON SIGNAL ANALYSIS AND NEURO-MEDICAL TECHNOLOGIES IN SLEEP, EPILEPSY, CONSCIOUSNESS AND COGNITION

Introduction by Prof. Dr. Antoine Adamantidis

Aim

Teaching signal analyses methods by MATLAB and learning more about innovative neuro-medical technologies in sleep, epilepsy, consciousness and cognition.

- **Lectures:**

- The huge technical progress in the last years and the increasingly better understanding of the central nervous system allows the development and fine-tuning of new neuro-medical technologies.
- Taught by national and international experts

- **Teaching classes:**

- Introduction to current tools and methods used to acquire brain signals
- practical exercises on signal analysis by MATLAB with solutions (self-study)

Requirements for 2 ECTS-credits

- **Be present:** 11 of 17 classes AND lectures (~70%)
- **Pass exam:**
 - 02.06.2017, 12:30-13:30
 - MC-questions
 - Questions are based on the contents of the teaching classes (class, slides, provided papers, code)

Optional

- Participation at the 5th BENESCO Winter Research Meeting (09.-11.3.16)



Contact

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