

## **COST ACTION 15209, European Network on NMR Relaxometry (EURELAX)**

### **Training School:**

#### **NMR relaxometry - theoretical modeling and data interpretation**

**Institute Of Medical Engineering, Graz University Of Technology, Graz, Austria**

**26.02.2018-28.02.2018**

Monday 26.02

8.30-9.00 Registration

9.00 – 11.00 Quantum mechanical principles of spin relaxation theories

11.00 -11.30 Coffee break

11.30 – 13.00 Spin Hamiltonians and molecular dynamics

13.00 – 14.30 Lunch

14.30 – 16.30 Quantum chemistry calculations - diamagnetic systems

16.30 – 17.00 Coffee break

17.00 – 18.30 Relaxation theory for paramagnetic systems

18.30-19.30 Discussions with Trainers

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Tuesday 27.02

9.00 – 11.00 Examples of data analysis for molecular and ionic systems

11.00 -11.30 Coffee break

11.30 – 13.00 Relaxation of water

13.00 – 14.30 Lunch

14.30 – 16.30 Data analysis for paramagnetic systems

16.30 – 17.00 Coffee break

17.00 – 18.30 Quality of fitting

18.30-19.30 Discussions with Trainers

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Wednesday 28.02

9.00 – 11.00 Advanced relaxation scenarios

11.00 -11.30 Coffee break

11.30 – 13.00 Quantum chemistry calculations – paramagnetic systems

13.00 – 14.30 Lunch

14.30 – 15.30 Relaxation in specific systems – I

15.30 - 16.30 Relaxation in specific systems – II

16.30 – 17.00 Coffee break

17.00 – 18.30 Paramagnetic systems – advanced approaches

18.30-19.30 Discussions with Trainers

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