



JOHANNES GUTENBERG  
UNIVERSITÄT MAINZ

# **Bachelor's Thesis Presentation**

**Room: Galileo room, 01-128 (Staudinger Weg 9)**

**Time: Monday, 02.03.2020, 14:00**

**Max Ramstöck**

JGU Mainz

## **Evaluation and introduction into a tight binding model for first principles modeling of vibrational spin relaxation in conjugated polymers**

A modeling method for vibrational spin relaxation is presented and compared to experimental data for accuracy. Another comparison is then made to a tight binding model of the same system to gauge the effectiveness of a tight binding approximation for vibrational spin relaxation. The result implies a bad utility of a tight binding model and so possible improvements are discussed.

**All interested are cordially welcome!**

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