



## Sonderforschungsbereich TRR 160

Kohärente Manipulation wechselwirkender Spinanregungen  
in maßgeschneiderten Halbleitern

Integrated Research Training Group (IRTG)

# Seminarankündigung

Dienstag, 18.10.2022, 14:00 Uhr

CP-E0-139

## “Molecular interactions: from cold to ultra-cold regime”

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### Abstract:

Interatomic and intermolecular interactions play a significant role in the formation of the properties of the atmosphere, the excitation energy transfer, and photochemical reactions. At low temperatures down to  $\mu\text{K}$ , quantum effects become more important and form new features of interactions. Such ultracold molecular systems are promising objects for fundamental research and technology. This presentation is a brief guide to the experimental and theoretical studies of interactions between simple molecules through the projects I have been involved in. These studies cover various molecular systems, from Van-Der-Waals complexes at temperatures of a few K to cooled atoms and molecules at micro K.