

Members



Old group Photos: 2010 , 2009 , 2008

At the Center for Theoretical Chemistry of the University of Bochum (Director: Professor Dominik Marx) there are **several scientifically active research groups**. All groups share a common interest and quest to understand "**molecular systems within the framework of quantum mechanics**" and cover altogether a wide spectrum in theoretical chemistry, which reaches into the realms of theoretical biology and theoretical physics. Specific research areas are **dynamical ab initio simulations** of complex many-body systems at finite temperatures (Marx), the **development of response methods, photochemistry and optical properties** (Hättig) and the **development of neuronal network methods for the heterogenous catalysis** (Behler). The Doltsinis group (**photo(bio)chemistry and chemistry of solvated systems**) is now at Universität Münster and the Meyer group (**heterogeneous catalysis and material science**) at Universität Erlangen-Nürnberg.

Furthermore, two Emeriti remain scientifically active in two areas, one area is **highly accurate methods** for small molecules, the emphasis here is on electron correlation and relativity (Kutzelnigg) and the other is **spectroscopy and surface science**, with emphasis on excited electronic states, magnetic exchange coupling and periodic systems (Staemmler).

- List of all members
- List of the members of the Marx group
- List of the members of the Hättig group
- List of the members of the Behler group
- List of the members of the Doltsinis group (now at Universität Münster)

- List of the members of the Meyer group (now at Universität Erlangen-Nürnberg)
- List of the members of the Staemmler group
- List of the members of the Kutzelnigg group
- List of associated members
- List of alumni