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Some Challenges of Quantum Theory Applied to Chemistry and Materials Science

Thursday 15 May 2025 15:50 (40 minutes)

We have strived for a general understanding of complex general chemical problems in the last 25 years. This endeavor has led my group to touch upon various situations that point to unsolved problems of quantum chemistry. In this talk, I will present a compilation of these problems that will lead us from relativistic quantum chemistry to electronic structure theory and reaction chemistry, up to quantum dynamics.

Presenter: REIHER, Markus (ETH Zürich)