

Physikalisches Kolloquium



Thursday, 19.10.2023, 16:15, HS 100

Reception with coffee & cookies 16:00

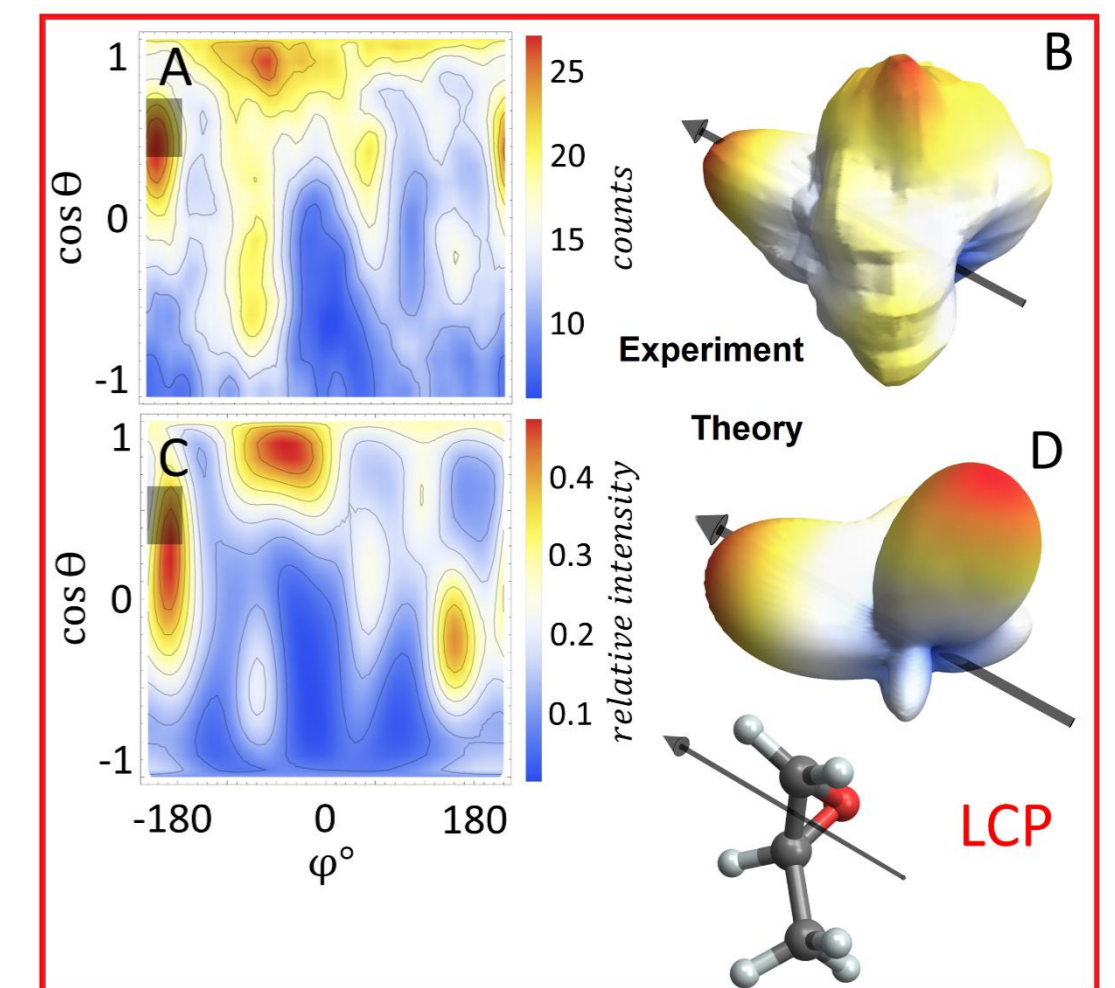
(For university staff: please bring your own cup for sustainability reasons)

Prof. Dr. Philipp Demekhin, Theoretical Atomic and Molecular Physics
University of Kassel:

Ten Years in Kassel: a scientific progress report on the development of the Single-Center Method

Abstract

The Single-Center method for the theoretical description of the electron continuum spectrum in molecules is our main computational tool for angular- and time-resolved electronic excitation and photoionization studies of randomly-oriented and fixed-in-space molecules. After establishing the Theoretical Atomic and Molecular Physics group (TheoPhysIV) at the Institute of Physics, Faculty of Mathematics and Natural Sciences (University of Kassel), significant computational and applicational developments of the method were successfully performed. The present talk will give a complete overview of those developments performed during the last ten years in Kassel, as well as discuss its present range of applicability and perspectives for further developments.



All of you interested in physics are cordially invited!