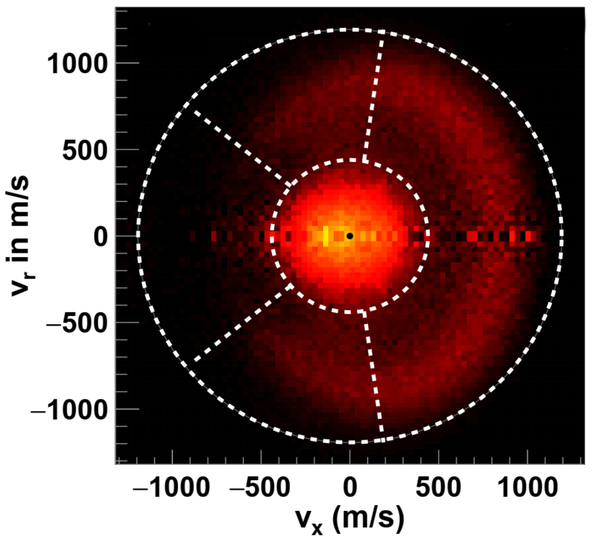
Physikalisches Kolloquium

Thursday, 01.12.2022, 16:15, HS 100
In presence

Prof. Dr. Roland Wester, Universität Innsbruck
Institut für Ionenphysik und Angewandte Physik – Molekulare Systeme:

Chemical reaction dynamics of ions: from classical to quantum

Abstract
To understand how chemical reactions proceed, has been a goal of research in physics and chemistry for more than a century. In this talk I will show how single-collision experiments combined with product velocity map imaging and reaction dynamics calculations can provide detailed atomistic views on reaction mechanisms and product information.
Examples include direct and complex-mediated mechanisms in substitution reactions, the competition between reaction pathways, and the influence of vibrational excitation on chemical reactions. Finally, I will address the prospects for resolving quantum dynamics in chemical reactions.



All of you interested in physics are cordially invited!

Contact: Prof. Dr. Thomas Baumert, Experimental Physics III, More Information: uni-kassel.de/go/physikalisches_kolloquium