

ICECream

International Conference on Electron Capture in an environment
- real experiments and models



Tübingen, 23.–26. September 2024

Organizing Committee:

Elke Fasshauer
Elena Jahr
Gurli Schuster

Annika Bande
Axel Molle
Daniel Peláez
Federico Pont
Nicolas Sisourat

Funding:



Inter-particle Coulombic electron capture (ICEC) is an environment-enabled process in which an electron can be efficiently attached to an ion, atom, molecule, or quantum dot. The excess energy is simultaneously transferred to a neighboring system which is ionized or excited. ICEC has been predicted by theoretical approaches ranging from analytical models to ab initio electronic structure and dynamical calculations. Their common assumption is that nuclei remain fixed during ICEC. However, given the time scale of ICEC, nuclear dynamics should play an important role in changing the efficiency and/or influencing the final state of the system. The aim of this conference is to gather state-of-the-art research on environment-assisted electron capture and related topics as well as on quantum-dynamical methods and experimental techniques which will provide a complete description of ICEC in the future.

Register at <https://forms.gle/DMVNoQxMZKPgD7CB6>



Confirmed Speakers

Lorenz Cederbaum
Jimena Gorfinkiel
Till Jahnke
Robert Bennett

Venue

Monday:
Rittersaal in Castle Hohentübingen
Museum Alte Kulturen
Burgsteige 11

Tuesday–Thursday:
Geo- und Umweltforschungszentrum
Campus Morgenstelle
Schnarrenbergstr. 94-96