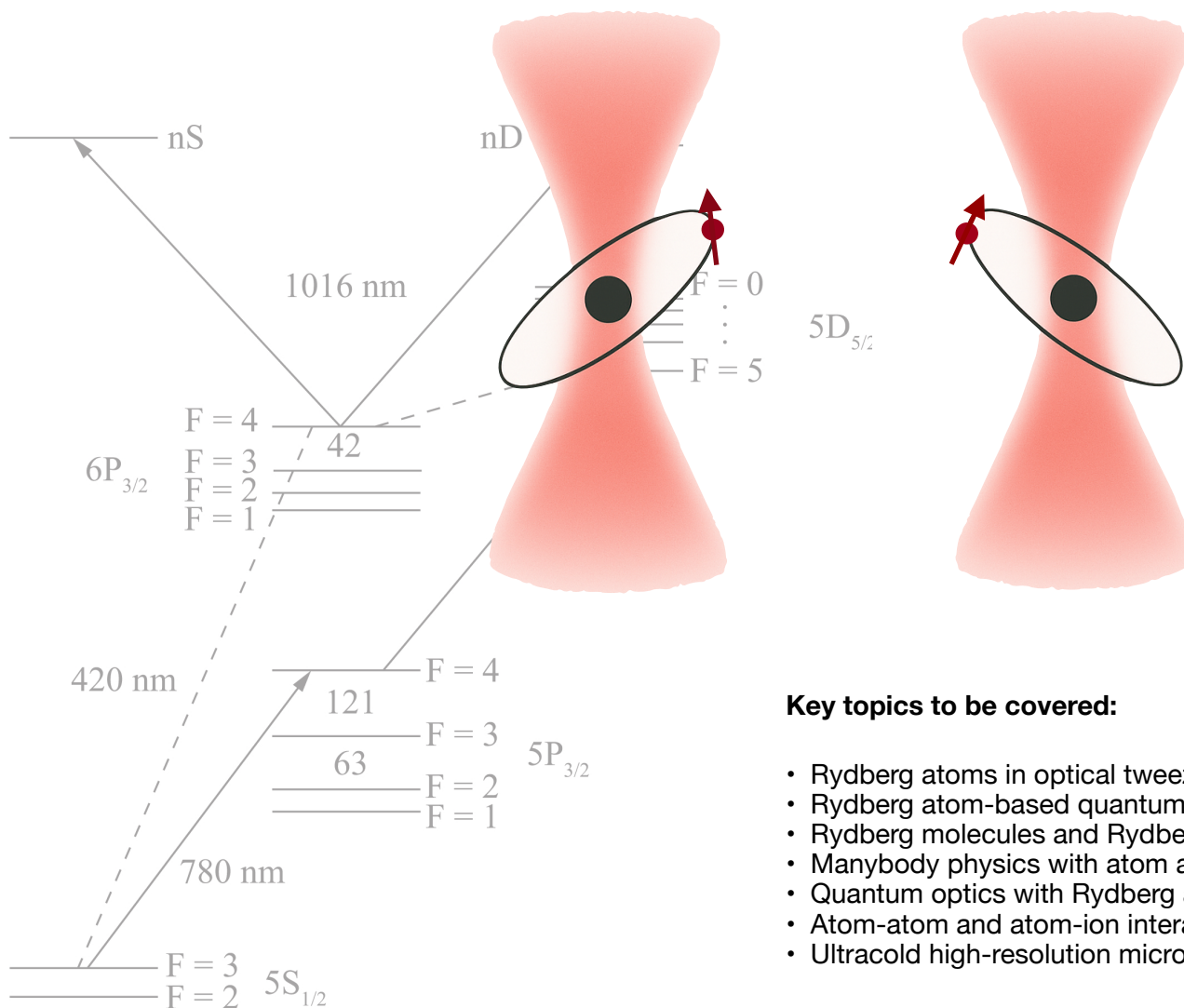


CUI: Young Researchers Workshop

Functionalities of Rydberg Matter (FORM2025)

May 5th to 7th 2025

Photo:UHH/Dingler



Sketch: Fahey, Noel (2011) Opt. Express 19, 17002-17012

Key topics to be covered:

- Rydberg atoms in optical tweezer arrays
- Rydberg atom-based quantum computers
- Rydberg molecules and Rydberg polarons
- Manybody physics with atom arrays
- Quantum optics with Rydberg atoms
- Atom-atom and atom-ion interactions
- Ultracold high-resolution microscopy

Invited speakers:

Dr. Sebastian Weber
 Dr. Giacomo Giudici
 Dr. Pascal Weckesser
 Markus Exner
 Chris Nill
 Iason Tsiamis
 Aileen Durst
 Milena Simić
 Neethu Abraham

Dr. Nina Stiesdal
 Dr. Moritz Berngruber
 Dr. Titus Franz
 Dr. Gerhard Zürn
 Dr. Simon Balthasar Jäger
 Dr. Aslam Parvej
 Eran Reches
 Achim Scholz
 Kapil Goswami

Hosted by:

Center for Optical Quantum Technologies (ZOQ)
 Luruper Chaussee 149, Building 90
 22761 Hamburg
 Germany

How to get to the ZOQ

Contact: Rohan Srikumar, Zeki Zeybek, Aslam Parvej