

Symposium Molecules in Helium Droplets (SYHD)

jointly organised by
the Molecular Physics Division (MO) and
the Atomic Physics Division (A)

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With 4 invited talks, SYHD reports on helium considering dimers up to nano-sized droplets, the latter empty, singly doped with molecules, with clusters via multiple particle doping, and ionized droplets, addressing quantum features such as vortices, quantum halos and Efimov states. Thereby, techniques such as coulomb explosion imaging, coherent diffractive imaging with X-FEL pulses, messenger spectroscopy of ions, and mass selected ion spectroscopy are applied as well as time dependent helium density functional theory.

Overview of Invited Talks and Sessions

(Lecture hall E415)

Invited Talks

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| SYHD 1.1 | Wed | 11:00–11:30 | E415 | Structure and field-induced dynamics of small helium clusters — •MAKSIM KUNITSKI, JAN KRUSE, QINGZE GUAN, DÖRTE BLUME, REINHARD DÖRNER |
| SYHD 1.2 | Wed | 11:30–12:00 | E415 | Coherent Diffraction Imaging of isolated helium nanodroplets and their ultrafast dynamics — •DANIELA RUPP |
| SYHD 1.3 | Wed | 12:00–12:30 | E415 | Clustering dynamics in superfluid helium nanodroplets: A theoretical study — •NADINE HALBERSTADT, ERNESTO GARCÍA ALFONSO, MARTÍ PI, MANUEL BARRANCO |
| SYHD 1.4 | Wed | 12:30–13:00 | E415 | Messenger spectroscopy of molecular ions – Development of a new experimental setup — •ELISABETH GRUBER |

Sessions

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| SYHD 1.1–1.4 | Wed | 11:00–13:00 | E415 | Molecules in Helium Droplets |
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