



EINLADUNG

zum **Vortrag**
von

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Taming Molecular Complexity with Supramolecular Chemistry

Dienstag, 25. Oktober 2022, um 17:30 Uhr

Ort: Lise-Meitner-Hörsaal, Fakultät für Physik, Universität Wien,
1090 Wien, Strudlhofgasse 4 / Boltzmannngasse 5, 1. Stock

Barrierefreier Zugang: Boltzmannngasse 5, Lift, 1. Stock rechts über den Gang zum Hintereingang des Hörsaals

Abstract

Organic architectures are considered one of the most promising candidates for engineering molecular-based flexible devices. It is however necessary to develop systems that can form at interfaces organized molecular assemblies featuring addressable and controllable arrangements. In this respect, the hierarchical self-assembly of organic molecules featuring complementary non-covalent recognition sites allowing the simultaneous assembly of several units and long-range order is one of the most promising approaches. In this talk, I will describe our approaches to engineer multidimensional structures through the exploitation of weak interactions established by programmed molecules. Specific examples will be discussed with the attempt to answer to the question of whether and how the supramolecular approach can bridge organic chemistry with molecular organization and to which extent we can achieve macroscopic functions (e.g., electroluminescence, electrochromic behavior, conductivity, etc) solely through molecular engineering.