



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Frau M.Sc. Anna-Lena Thömmes
Allgemeine und Anorganische Chemie
(Prof. Dr. David Scheschkewitz)

am

Freitag, 29. August 2025, 16:00 Uhr s.t.

per Videokonferenz: Link für MS Teams: <https://shorturl.at/jTFAG>
Raum für die Prüfung: C4.3, Raum 0.01 (Großer HS der Chemie)

Thema der Dissertation:

Advanced Polymers with Ge=Ge Double Bonds

Covalent doping with inorganic main group elements exerts significant influence on the electronic structure of conjugated inorganic-organic hybrid polymers – with implications for the use in (opto-)electronic devices. On the pathway towards purpose-built materials, the recently reported heavier acyclic diene metathesis (HADMET) represents a milestone providing the first polymer with Ge=Ge double bonds. In this thesis, advanced poly(digermene)s with high solubility and high degrees of polymerization are developed and investigated in solution, as bulk solids and in thin films. Stabilization of the key intermediate, a highly reactive bis(germylene), allowed for the elaboration of functionalization strategies and a novel synthetic route towards poly(digermene)s.

Saarbrücken, 14. August 2025

Prof. Dr.-Ing. Georg Frey