



Polymers under Multiple Constraints

Polymer- & Soft-Matter-Seminar

Prof. Dr. Jürgen Senker

University of Bayreuth, Department of Chemistry

Tuesday,
October 25, 2022

at: 4.15pm

VDP 4 1.27,
Von-Danckelmann-
Platz 4
06120 Halle

"Polymer Defects in Weathered Microplastics and Self-Aggregation of Polymer Additives - Probing Minority Components by NMR Spectroscopy"

Chemical modifications and additions to polymers dramatically change the properties of the base polymers, even if these changes occur with minuscule proportions of only a few hundred ppm. Here we show, that techniques for signal enhancement like SEOP and DNP can be used to overcome the sensitivity challenge of NMR spectroscopy and allow to characterize structural aspects and identify chemical functionalities for the minority components. The lecture will discuss the implications of the self-aggregated additive objects on the polymer properties and the potential effects of abiotically degraded microplastics in environmental compartments.

[Join via Zoom](#)

Meeting-ID: 932 2177 9598

Password: 547489



UNIVERSITÄT
LEIPZIG



Max-Planck-Institut
für Kolloid- und Grenzflächenforschung



Fraunhofer
IMWS

MARTIN-LUTHER-UNIVERSITÄT
HALLE-WITTENBERG

