Discussion Meeting

Thursday, March 4, 2027, Händel-Haus, Große Nikolaistraße 5, Halle (Saale)

08:15 Registration

08:45 Welcome

09:00 **J.A. Pomposo** (CFM - Materials Physics Center, San Sebastián, ES, 25')
Lessons from Simple Models of Complex Single Chain Nanoparticles

09:30 **J.M.J. Paulusse** (Gateway Bio, BioPartner 1, Leiden University, Leiden, NL, 25')
Post-Formation Functionalization of Single-Chain Polymer Nanoparticles for Drug Delivery

10:00 **H. Mutlu** (Friedrich Schiller University Jena, DE, 12')
Single chain nanoparticles are not final products: encoding collapse, reversibility and fate in one chain

10:15 — Coffee break —

10:45 **A.R.A. Palmans** (Eindhoven University of Technology, Eindhoven, NL, 25')
Folding polymers into functional nanoparticles

11:15 **A. Lederer** (Leibniz Institute of Polymer Research Dresden, DE, Stellenbosch University, 25')
From Compaction to Topology: Advanced Characterization of Single-Chain Nanoparticles

11:45 **W.H. Binder** (Martin Luther University Halle-Wittenberg, Halle/Saale, DE, 25')
Photothermal Single Chain Nanoparticles : Internal Compartments as Photoresponsive & Catalytic Units

12:15 — Lunch break —

13:15 **J.F. Thümmler** (Martin Luther University Halle-Wittenberg, Halle/Saale, DE, 12')
Core-Shell structured SCNPs: In-Depth Analysis and Enzyme-Mimicry

13:30 **T.J. Neal** (Impact solutions, Kirkton campus, Livingston, Livingston, UK, 25')
Amphiphilic statistical copolymers: Industrially relevant biomolecule mimics offering a potential solution to plastic recycling

14:00 **E. Guazzeli** (University of Pisa, Pisa, IT, 25')
Single-chain folding in amphiphilic polymers: linking molecular design to functional behavior

14:30 — Coffee break —

15:00 **Ch. Barner-Kowollik** (Karlsruhe Institute of Technology, Karlsruhe DE, 25')
Photocatalysis under Spatial Confinement via SCNPs

15:30 **A. Statt** (Martin Luther University Halle-Wittenberg, Halle/Saale, DE, 12')
Coarse-grained simulations of Single Chain Nanoparticles - Effect of Side Chains

15:45 **M. Surin** (University of Mons, Mons, BE, 25')
Towards the prediction of 3D structures of sequence-defined macromolecules and single-chain nanoparticles

16:15 **O.O. Mykhaylyk** (University of Sheffield, Sheffield, UK, 25')
Self-Assembly of Amphiphilic Statistical Copolymers in Aqueous Dispersions

17:00 — Buffet — Conclusions, Future projects, Farewell – End 19:00