



2024 IRES SYMPOSIUM



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



Friday, July 26, 2024



2:00 PM - 4:40 PM German
8:00 AM - 10:40 AM Eastern



Location: [Barkhausen Bau 188](#)
Zoom: https://go.ncsu.edu/ires_symposium

Session 1: Simulations

2:00 - 2:20 PM

8:00 - 8:20 AM

Matt Dorsey

NC State / Leibniz IPF, Hosts: Jens-Uwe Sommer, Ron Dockhorn
Hysteresis of Stiff, Interlocking Polymer Rings

2:20 - 2:40 PM

8:20 - 8:40 AM

Chrissy Bayard

NC State / TU Dresden, Hosts: Gianaurelio Cuniberti, Leonardo Medrano Sandonas
Quantum Machine Learning for RNA Simulations

2:40 - 2:50 PM / 8:40 - 8:50 AM *Coffee Break*

Session 2: Polymer Chemistry

2:50 - 3:10 PM

8:50 - 9:10 AM

Maria Furukawa

UNC / Leibniz IPF, Host: Petra Uhlmann
Preparation of Biocompatible Polyamide Nanofilms with Multifunctional Polymer Brushes

3:10 - 3:30 PM

9:10 - 9:30 AM

Alex Foret

Duke / Leibniz IPF, Host: Christian Roßner
Synthesis of Terpyridine-Containing Copolymers with Star Topology as Ligands for Gold Nanoparticles

3:30 - 3:50 PM

9:30 - 9:50 AM

Taylor Robinson

UNC / Leibniz IPF, Host: Quinn Besford
Developing Messenger Material Nanoparticles for Probing Physical Phenomena

3:50 - 4:00 PM / 9:50 - 10:00 AM *Coffee Break*

Session 3: Applications

4:00 - 4:20 PM

10:00 - 10:20 AM

Darryl Taylor

Duke / Papiertechnische Stiftung, Host: Martin Zahel
Acetosolv Nanocellulose

4:20 - 4:40 PM

10:20 - 10:40 AM

Jimmy Nguyen

NC State / TU Dresden, Hosts: Stefan Kaskel, Irena Senkovska
Synthesis and Chemistry of 2D Metal-Organic Frameworks



Symposium Website
mse.ncsu.edu/dresden/symposium/