



# GAMM2025

## Wednesday 9 April 2025

### **S26: Modelling, Analysis and Simulation of Molecular Systems: S26.01 - Room 0.210 (08:30 - 10:10)**

-Conveners: Benjamin Stamm

time	[id] title	presenter
08:30	[759] The Quasi-Stationary Distribution approach to metastability	LELIEVRE, Tony
09:10	[389] On-the-fly adaptive sparse grids for coupling molecular monte-carlo and continuum models	HÜLSER, Tobias
09:30	[390] Koopman-based Control for Stochastic Systems: Application to Enhanced Sampling	GUO, Lei
09:50	[391] Coarse-grained simulation of protein self-assembly	MAYRHOFER, Lukas

### **S26: Modelling, Analysis and Simulation of Molecular Systems: S26.02 - Room 0.210 (16:30 - 18:30)**

-Conveners: Felix Nüske

time	[id] title	presenter
16:30	[774] Family of Gaussian wavepacket dynamics methods from the perspective of a nonlinear Schrödinger equation	VANICEK, Jiri
17:10	[392] Multiresolution of the free-particle propagator	DINVAY, Evgueni
17:30	[393] Second-Order Time-Splitting Hermite Spectral Method for Nonlinear Schrödinger Equations with Time-Dependent Potential	BERGOLD, Paul
17:50	[394] Quasivoids in polydisperse glassy systems with atomistic PEL exploration and iso-configuration method	SWAYAMJYOTI, S.
18:10	[356] Analysis of an inexact domain decomposition method with application to the Conductor-like Screening model	GHOSH, Nibedita

# Thursday 10 April 2025

**S26: Modelling, Analysis and Simulation of Molecular Systems: S26.03 - Room 0.210 (08:30 - 10:30)****-Conveners: Sebastian Matara**

time	[id] title	presenter
08:30	[357] Wigner crystallization	FRIESECKE, Gero
09:10	[358] A mathematical analysis of IPT-DMFT	PERRIN-ROUSSEL, Solal
09:30	[359] Certified Model Order Reduction for parametric Hermitian eigenproblems	ZENG, Zhuoyao
09:50	[360] Riemannian Optimisation Methods for Ground States of Multicomponent Bose-Einstein Condensates	HERMANN, Martin
10:10	[361] An Energy-Adaptive Riemannian Conjugate Gradient Method for Eigenvector Problems of Kohn-Sham Type	PÜSCHEL, Jonas