## Intersectional Symposium Transport and Spectroscopy in Molecular Nanostructures (SYMN)

lead by the Molecular Physics Division (MO)

Ulrich Kleinekathöfer Jacobs University Bremen Volkhard May Humboldt-Universität zu Berlin

The fundamental principles of electronic excitation energy and charge transfer in condensed phase systems are well known since decades. However, based on new and improved methodologies in electronic structure calculations and dynamic simulations together with new experimental results, the insight in these processes has been deepened considerably in recent years. This development mainly originated from the study of novel nano-hybrid systems joining single molecules or supramolecular complexes with semiconducting nanocrystals, quantum dots or metal nano-particles. Even complex biological systems by themselves and their combination with semiconducting or metallic nano-structures attracted considerable interest. The symposium tries to document and foster collaborations between theoretical physicists and chemists as well as experimentalists working in this very interdisciplinary field.

## **Overview of Invited Talks and Sessions**

(lecture room HSZ 01)

## **Invited Talks**

Wed	10:30-11:00	HSZ 01	Exciton localization and dynamics in molecular aggregates — •JASPER KNOESTER
Wed	11:00-11:30	HSZ 01	Spectroscopy and transport in carbon nanotubes and graphene nanoribbons for electronics and biological applications — $\bullet$ OLEG
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wea	11:30-12:00	H5Z 01	•SHAUL MUKAMEL
Wed	12:00-12:30	HSZ 01	Theory of light-harvesting in photosynthetic pigment-protein com-
			plexes — •Thomas Renger, Marcel Schmidt am Busch, M. El-
			Amine Madjet, Frank Müh
Wed	12:30 - 13:00	HSZ 01	How do algae use quantum mechanics to harvest light for photo-
			synthesis? — •Gregory Scholes
	Wed Wed Wed Wed	Wed 10:30-11:00   Wed 11:00-11:30   Wed 11:30-12:00   Wed 12:00-12:30   Wed 12:30-13:00	Wed 10:30–11:00 HSZ 01   Wed 11:00–11:30 HSZ 01   Wed 11:30–12:00 HSZ 01   Wed 12:00–12:30 HSZ 01   Wed 12:30–13:00 HSZ 01

## Sessions

SYMN 1.1–1.5	Wed	10:30-13:00	HSZ 01	Transport and Spectrosco	oy i	n Molecular	Nanostructures
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