

## SFB1319 Winterschool 2021 - Program

	Tue, 07.12.	Wed, 08.12.	Thu, 09.12.
9:00-9:45		Talk Madsen	Talk Averbukh
9:45-10:30		Talk Stickler	Talk Loru
10:30-11:00		<i>Coffee</i>	<i>Coffee</i>
11:00-11:45		Lecture (Berger)	Talk Merkt
11:45-12:30			Talk Yurchenko
12:30-14:00		<i>Lunch</i>	<i>Lunch</i>
14:00-14:45	Intro	ECR / PI Meeting	Lecture & Hands-On-Session (Heger)
14:45-15:30	Talk Langen	Poster Session	
15:30-16:00	<i>Coffee</i>		<i>Coffee</i>
16:00-16:45	Talk Endres	Socializing	Talk Truppe
16:45-17:30	Talk Dingel		Wrap-up

Speaker	Topic
Tim Langen	Laser cooling of diatomic molecules: an atomic physicist's perspective
Christian Endres	Automatic Spectral Assignment Procedure ASAP - Application to complex spectra of chiral molecules
Kristina Dingel	Characterization of FEL pulses based on machine-learning
Lars Bojer Madsen	Strong-field tunneling rates of complex molecules: Weak-field asymptotic theory and application
Ben Stickler	Conformer selection and enantiomer superpositions from matter-wave interference
Robert Berger	Intriguing features of heavy elements and their role in chirality and fundamental physics
Ilya Averbukh	Recent results on controlling chiral molecules by twisted fields
Donatella Loru	Understanding the interstellar role of PAHs in the laboratory by rotational spectroscopy
Frédéric Merkt	Precision spectroscopy in few electron molecules
Sergey Yurchenko	Internal Rotation of Molecules
Marec Heger	Software "Blender": Lecture and Hands-On-Session
Stefan Truppe	Laser trapping and cooling of small molecules for spectroscopic investigations