

## Program – Workshop “Dynamics of Ion Coulomb Crystals”

Talks will start after lunch on the first day and end in the afternoon of the second day to allow travel within Germany.

**10 Talks: 25 min + Questions**

Wednesday 20.02.2019	Thursday 21.02.2019
	9:00 - 9:30 Mehlstäubler/Santos/Weimer <i>TBA</i>
	9:30 -10:00 Nigmatullin <i>Nanofriction in Ion Coulomb Crystals</i>
	10:00 -10:30 Coffee Break
	10:30 –11:00 Counts Probing New Physics via Isotope Shift Spectroscopy with Yb <sup>+</sup>
	11:00 -11:30 Morigi <i>Quantum defects in ion crystals</i>
11:30 -12:00 For early birds: Coffee and get together at RZB 11	11:30 -12:30 Discussion <i>“Where is research on Coulomb Crystals heading to? Open questions...”</i>
12:15 -13:00 Lunch at PTB	12:30 -13:15 Lunch at PTB
13:15 Welcome + Review	13:15 -15:00 Round Table
13:30 -14:00 Singer <i>TBA</i>	
14:00 -14:30 Wunderlich <i>Perspectives on Experiments with 2D Ion-Coulomb Crystals by Merging 1D Ion Chains</i>	Lab Tours
14:30 -15:00 Schmidt-Kaler <i>Crystal kinks and mass defects</i>	
15:00 -15:30 Coffee Break	
15:30 -16:00 Plenio <i>Simulating open system dynamics with trapped ions</i>	
16:00 -16:30 Schätz <i>Optical Trapping of Ion Coulomb Crystals - towards structural phase transitions</i>	
16:30 -17:00 Drewsen <i>Motional control of ion Coulomb crystals by optical cavity fields</i>	
19:00 Dinner at Tresor	

