Study Days Zoom conference 09./10.6. 2021		
Wednesday <u>09.06.2021</u>		
Zoom meeting number will be sent via email shortly before the meeting starts		
Chair: Andreas Baer		
13:00 - 14:00	Philipp Hansmann Emergent phenomena in quantum many-body systems: From high-Tc cuprates to ad-atoms on silicon	
14:00 - 14:30	Research project Selina Noecker Electronic properties of monolayer transition metal dichalcogenides from first principles	
14:30 - 15:15	Master thesis Torsten Weber Towards a periodic-orbit theory of Jackiw-Teitelboim quantum gravity I: Introduction to JT/RM	
Coffee break		
Chair: Aaron Müller		
15:45 - 16:30	Bachelor thesis Carolyn Echter Periodic-orbit aspects of Selberg's trace formula in the context of Jackiw-Teitelboim gravity	
16:30-17:00	Research project Daniel Riese Diagrammatic expansion of conditional correlators in JT-gravity	
17:00-17:30	Research project Benedikt Baumgartner Many body localization in non-interacting random model	
Coffee break		
Chair: Christoph Strunk and Kristina Giesel		
17:45	General discussion	
Thursday 10.06.2021		
Zoom meeting number will be sent via email shortly before the meeting starts		
Chair: Max Fahn		
10:00 - 10:45	Master thesis Lea Lenke Higher order series expansion of non-Hermitian quan- tum spin models	
10:45 - 11:30	Bachelor thesis Lukas Schamriß Topological quantum phase transition in the trilayer Ising toric code	

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11:30 - 12:15	Bachelor thesis Maximilian Bayer Low-field series expansion of the long-range transver- se-field Ising model on the square lattice
	Lunch break
	Chair: Josef Freudenstein
13:15 - 14:00	Bachelor thesis Johannes Große Spin Observables in Loop Quantum Gravity
14:00 - 14:30	Research project Julian Siegl Lead phonons broadening for an Anderson impurity
	Coffee break
	Chair: Manuel Meierhofer
15:00 - 15:45	Bachelor thesis Philipp Schmidt A study of multi-frequency Brillouin memory devices
15:45 - 16:30	Bachelor thesis Lukas Hennig The influence of the detector calibration on the reconstruction performance of Graph Neural Networks in KM3NeT
16:30 - 17:00	Research project Denise Lichthardt Characterizing gel networks with artificial intelligence