Sunday, June 3, 2018

17:00 - 21:00	Registration
from 18:30	BUFFET SUPPER / Informal get together

Monday, June 4, 2018

08:00 BREAKFAST

CHAIR: Maria-Roser Valentí

08:50 - 09:00	Scientific organizers	Opening and welcome
09:00 – 09:45	Frank Pollmann	Efficient simulation of the dynamics in frustrated spin systems
09:45 – 10:30	Frédéric Mila	Generalization of the Haldane conjecture to SU(3)
10:30 - 11:00	COFFEE BREAK	
11:00 – 11:45	Andreas Läuchli	Computational quantum field theory approaches to quantum magnetism
11:45 – 12:30	Philippe Mendels	Quantum kagome spin liquids: A local view
12:30	Conference Photo (in t	he foyer of the lecture hall)
12:40	LUNCH	

Monday, June 4, 2018

CHAIR: Arnaud Ralko

14:30 – 15:15	Radu Coldea	Spin dynamics of frustrated quantum pyrochlore magnets
15:15 – 15:45	Yasir Iqbal	Quantum and classical phases of the pyrochlore Heisenberg model with competing interactions
15:45 – 16:15	Sasha Chernyshev	Topography and mimicry of spin liquids on a triangular lattice
16:15 – 16:45	COFFEE BREAK	
CHAIR: Jürgen	<u>Schnack</u>	
16:45 – 17:30	Christian Rüegg	New phases and quantum criticality in spin- and spin-orbital singlet systems
17:30 – 18:00	Ornella Vaccarelli	Exotic phenomena in the new frustrated spin ladder Li ₂ O(CuSO ₄) ₂
18:00 - 18:30	Toshihiro Sato	Quantum Monte Carlo simulation of frustrated Kondo lattice models
19:00	DINNER	

Tuesday, June 5, 2018

08:00 BREAKFAST

CHAIR: Johannes Richter

09:00 – 09:45	Natalia Perkins	Evolution of intertwined orders in the Kitaev magnet β -Li ₂ IrO ₃
09:45 – 10:30	Stephen Winter	Consequences of anisotropic magnetism in α-RuCl₃
10:30 - 11:00	COFFEE BREAK	
11:00 – 11:45	Christian Hess	Heat transport of the putative Kitaev quantum spin liquid α-RuCl₃
11:45 – 12:30	Yukitoshi Motome	Majorana fermions in Kitaev spin liquids
12:30	LUNCH	
CHAIR: Andrea	<u>s Honecker</u>	
14:30 – 15:15	Hidenori Takagi	Spin-orbital entangled quantum liquid in H3Lilr2O6
15:15 – 16:00	Roderich Moessner	Dynamics of two-dimensional quantum magnets
16:00 - 16:30	Poster flash presentat	ions I
16:30 – 18:30	Poster session I and C	OFFEE
19:00	DINNER	

Wednesday, June 6, 2018

08:00 BREAKFAST

CHAIR: Karlo Penc

09:00 - 09:45	Maria Daghofer	Impact of Hund's rule on orbital and spin-orbital excitations
09:45 – 10:30	George Jackeli	Spin-orbital interplay in j=3/2 Mott insulators
10:30 - 11:00	COFFEE BREAK	
11:00 – 11:45	Bella Lake	Experimental investigation of two new quantum spin liquids
11:45 – 12:30	Salvatore Manmana	Emergent structures in magnetic systems out-of-equilibrium
12:30	LUNCH	
CHAIR: Karol S	<u>załowski</u>	
14:30 – 15:15	Stefan Wessel	Quantum Monte Carlo in the spin-dimer basis
15:15 – 16:00	Frederico Becca	Dynamical structure factor of frustrated spin models: A variational Monte Carlo approach
16:00 – 18:30	Excursion (leisurely hik	e in the vicinity)

19:00 HERAEUS DINNER at the Physikzentrum (cold & warm buffet, free beverages)

Thursday, June 7, 2018

08:00 BREAKFAST

CHAIR: Kai Phillip Schmidt

09:00 – 09:45	Masaki Oshikawa	Gauge invariance and stability of pi-flux critical phases
09:45 – 10:30	Didier Poilblanc	Approaching frustrated magnetism with tensor networks
10:30 - 11:00	COFFEE BREAK	
11:00 – 11:45	Martin Hohenadler	Antiferromagnet to valence-bond solid transition with Dirac fermions
11:45 – 12:30	Chisa Hotta	Thermodynamic properties of quantum spin systems
12:30	LUNCH	
CHAIR: Gergely	<u>Szirmai</u>	
14:30 – 15:00	Natalia Chepiga	DMRG investigation of quantum dimer ladders
15:00 – 15:30	Götz Uhrig	Electronic & nuclear spins in driven quantum dots: Paradigm for non- equilibrium states with induced coherence
15:30 – 16:00	Jeffrey Rau	Pseudo-Goldstone gaps and order-by- quantum-disorder in frustrated magnets
16:00 – 16:30	Poster flash presentat	ions II
16:30 – 18:30	Poster session II and C	COFFEE
19:00	DINNER	

Friday, June 8, 2018

08:00 BREAKFAST

CHAIR: Oleg Derzhko

09:00 - 09:45	Andreas Klümper	Quantum impurity models as derivatives of the Hubbard model
09:45 – 10:30	Laura Messio	High temperature expansions for magnetic systems with impurities under a magnetic field
10:30 - 11:00	COFFEE BREAK	
11:00 – 11:45	Corinna Kollath	Finite temperature spectral functions in quasi-one-dimensional magnets
11:45 – 12:30	Stefan Süllow	Field induced phases in the low- dimensional frustrated quantum magnets linarite and atacamite
12:30 – 12:45	Scientific organizers	Poster awards, summary and closing remarks
12:45	LUNCH	

End of the seminar and FAREWELL COFFEE / Departure

Please note that there will be **no** dinner at the Physikzentrum on Friday evening for participants leaving the next morning.