

Integrable Quantum Many-Body Systems

768. WE-Heraeus-Seminar

23 - 27 May 2022

hybrid

at the Physikzentrum Bad Honnef, Germany

**WILHELM UND ELSE
HERAEUS-STIFTUNG**



Program

Sunday, 22 May 2022

17:00 – 20:00 Registration

18:00 *BUFFET SUPPER and informal get-together*

Monday, 23 May 2022

08:00 *BREAKFAST*

09:00 Scientific organizers **Welcome words**

09:10 – 09:55 Barry McCoy **Ising correlations; results for Painlevé VI, factorizations and lambda extensions**

09:55 – 10:40 Junji Suzuki **Exact dynamical correlations**

10:40 – 11:10 *COFFEE & TEA*

11:10 – 11:55 Holger Frahm **Critical properties of intersecting loop models and their deformations**

11:55 – 12:40 Jesper Jacobsen **Geometric algebra and algebraic geometry of loop and Potts models**

12:40 – 12:50 **Conference Photo** (in the front of the lecture hall)

12:50 *LUNCH*

Program

Monday, 23 May 2022

14:30 – 15:15	Ovidiu Patu	Dynamical fermionization of one-dimensional multi-component gases at finite temperature
15:15 – 16:00	Imke Schneider	The quasi-1D Lieb-Liniger gas with time-periodically modulated interactions
16:00 – 16:30	<i>COFFEE & TEA</i>	
16:30 – 18:00	Poster session	
18:00	<i>DINNER</i>	

Program

Tuesday, 24 May 2022

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Alexander Belavin	Spectral flow construction of N=2 superconformal orbifolds
09:45 – 10:30	Fedor Smirnov	The matrix elements in sG model for shifted primary fields
10:30 – 11:00	<i>COFFEE & TEA</i>	
11:00 – 11:45	Olalla Castro Alvaredo	Symmetry resolved entanglement in quantum field theory
11:45 – 12:30	Anastasia Doikou	Quasi-bialgebras from set-theoretic type solutions of the Yang-Baxter equation
12:30	<i>LUNCH</i>	
14:30 – 15:00	Murray Batchelor	A coupled Temperley-Lieb algebra and the superintegrable chiral Potts model
15:00 – 15:30	Gesualdo Delfino	Universality in nonequilibrium quantum dynamics
15:30 – 16:00	Christoph Karrasch	Functional RG approach to non-equilibrium phases of matter
16:00 – 16:30	<i>COFFEE & TEA</i>	
16:30 – 18:00	Poster session	
18:00	<i>DINNER</i>	

Program

Wednesday, 25 May 2022

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Chihiro Matsui	Quasilocal charges of the XXZ spin chain and integrability of the boundary-driven diffusive system
09:45 – 10:30	Veronique Terras	Correlation functions for open XXZ spin 1/2 quantum chains with unparallel boundary magnetic fields
10:30 – 11:00	<i>COFFEE & TEA</i>	
11:00 – 11:45	Robert Weston	Q operators for open quantum spin chains
11:45 – 12:30	Karol Kozłowski	Convergence of the form factor series in the Sinh-Gordon quantum field theory in 1+1 dimensions
12:30	<i>LUNCH</i>	
14:30 – 15:00	Bart Vlaar	A universal approach to trigonometric K-matrices
15:00 – 15:30	Rouven Frassek	Non-compact spin chains and integrable particle processes
15:30 – 16:00	Kun Hao	Algebraic Bethe Ansatz for Free Motzkin Model
16:00 – 16:30	<i>COFFEE & TEA</i>	
16:30 – 19:00	Free for excursion	
19:00	<i>DINNER</i>	

Program

Thursday, 26 May 2022

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Vladimir Bazhanov	An Ising-type formulation of the six-vertex model
09:45 – 10:30	Patrick Dorey	Analytic continuation of TBA equations
10:30 – 11:00	<i>COFFEE & TEA</i>	
11:00 – 11:45	Jean Michel Maillet	On the Tetrahedron equation
11:45 – 12:30	Balázs Pozsgay	Integrable models with medium range interactions
12:30	<i>LUNCH</i>	
14:30 – 15:15	Angela Foerster	Design of integrable quantum devices
15:15 – 16:00	Giuliano Pavan Ribeiro	Correlation functions of integrable $O(n)$ spin chains
16:00 – 16:30	<i>COFFEE & TEA</i>	
16:30 – 17:30	Fabian Essler	Quantum dynamics in interacting Bose gases
18:30	<i>HERAEUS DINNER</i> <i>(social event with cold & warm buffet with complimentary drinks)</i>	

Program

Friday, 27 May 2022

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Kazumitsu Sakai	The spin Drude weight for the XXZ chain with arbitrary spin
09:45 – 10:30	Jesko Sirker	Transport properties of the XXZ spin chain
10:30 – 11:00	<i>COFFEE & TEA</i>	
11:00 – 11:45	Sergei Rutkevich	Spinon confinement in the gapped antiferromagnetic XXZ spin-1/2 chain
11:45– 12:30	Paul Pearce	Critical site percolation on the triangular lattice
12:30 – 12:45	Scientific organizers	Closing words
12:45	<i>LUNCH</i>	

End of the seminar and departure

NO DINNER for participants leaving on Saturday; however, a self-service breakfast will be provided on Saturday morning