

KITP Conference: Talking Integrability: Spins, Fields, and Strings

(Aug 29 - Sep 1, 2022)

Coordinators: Ben Hoare, Giuseppe Mussardo, Didina Serban, Matthias Staudacher, and Masahito Yamazaki

| Time | Speaker | Title |
|---|---|--|
| <u>Monday, Aug 29, 2022</u> | | |
| 8:50am | Mark Bowick (KITP) | Welcome[Video][CC] |
| 9:00am | Volker Schomerus (DESY) | Integrability of Conformal Symmetry[Video][CC] |
| 10:00am | Tomohiro Sasamoto (Tokyo Tech) | Integrability in one dimensional classical non-equilibrium statistical mechanical models[Slides][Video][CC] |
| 11:00am | | Morning Break |
| 11:30am | Charlotte Kristjansen (N. Bohr Institute) | Integrable domain walls in ABJM theory[Slides][Video][CC] |
| 12:30pm | | Lunch Break |
| 2:00pm | Riccardo Borsato (U Santiago de Compostela) | Integrable deformations and twists[Slides][Video][CC] |
| 3:00pm | Changrim Ahn (Ewha Womans U) | On the classification of UV completions of integrable \overline{TT} deformations of CFT[Video] |
| 4:00pm | | Afternoon Break |
| 4:30pm | Alessandro Sfondrini (UNIPD) | The spectrum of Ramond-Ramond AdS₃/CFT₂[Video][CC] |
| 5:30pm | | SHUTTLE BACK TO BWSCI |
| <u>Tuesday, Aug 30, 2022</u> | | |
| 9:00am | Shota Komatsu (CERN) | Crosscap States and Integrability[Video][CC] |
| 10:00am | Joerg Teschner (DESY/Hamburg) | Integrable sigma models at RG fixed points: quantisation as affine Gaudin models[Video][CC] |
| 11:00am | | Morning Break |
| 11:30am | Paul Ryan (Kings College London) | Correlation functions and functional separation of variables[Slides][Video][CC] |
| 12:30pm | | Lunch Break |
| Talks are 40 min + 20 min discussion | | |
| 2:00pm | Vincent Pasquier (IPhT-CEA Saclay) | Correlations and large deviations in a very simple integrable system[Slides][Video][CC] |
| 3:00pm | Olalla Castro Alvaredo (City U) | Out-of-equilibrium Dynamics of Integrable Models in the Presence of Unstable Quasiparticles[Slides][Video][CC] |
| 4:00pm | | Afternoon Break |
| 4:30pm | Gábor Takács (BME) | \overline{TT}-deformation, long range spin chains and weak integrability breaking[Video][CC] |
| 5:30pm | | COCKTAIL RECEPTION |
| 6:00pm | | DINNER |
| 8:00pm | | SHUTTLE BACK TO BWSCI |
| <u>Wednesday, Aug 31, 2022</u> | | |
| 9:00am | Giuliano Niccoli (ENS Lyon) | On correlation functions in the SoV framework[Video][CC] |

10:00am Paola Ruggiero (King's College) [Entanglement Rényi entropies from Ballistic Fluctuations Theory: the free fermionic case\[Video\]\[CC\]](#)

11:00am **Morning Break**

11:30am Andrea Trombettoni (SISSA) [Off-diagonal long-range order in low dimensional quantum systems\[Slides\]\[Video\]\[CC\]](#)

12:30pm **Lunch Break**

2:00pm Marius De Leeuw (Trinity Dublin) [Long-range interactions and the Yang-Baxter equation\[Slides\]\[Video\]\[CC\]](#)

3:00pm Stefano Negro (NYU) [The relevance of being irrelevant\[Slides\]\[Video\]\[CC\]](#)

4:00pm **Afternoon Break**

4:30pm Davide Fioravanti (INFN-BO) [Correspondence between classical and quantum integrable theories: applications and origin\[Slides\]\[Video\]\[CC\]](#)

5:30pm **COCKTAIL RECEPTION**

6:00pm **DINNER**

8:00pm **SHUTTLE BACK TO BWSCI**

Thursday, Sep 1, 2022

9:00am Lance Dixon (SLAC) [Tilting the cusp anomalous dimension in planar N=4 SYM\[Slides\]\[Video\]\[CC\]](#)

10:00am Matthias Gaberdiel (ETH Zurich) [The string dual of free N=4 SYM\[Video\]\[CC\]](#)

11:00am **Morning Break**

11:30am Elli Pomoni (DESY) [Spin chains for 4D N=2 SCFTs\[Video\]\[CC\]](#)

12:30pm **Lunch Break**

2:00pm **CONFERENCE END SHUTTLE TO BWSCI *Also available to SB Airport and SB Airbus, Goleta location (See Registration Desk BEFORE THURSDAY to sign up.)**