

Exact computations in AdS/CFT

Report of Contributions

Contribution ID: 1

Type: **not specified**

Spontaneous Conformal Symmetry Breaking in Fishnet CFT

Monday, 19 August 2019 10:30 (50 minutes)

Presenter: KAZAKOV, Vladimir (Laboratoire de Physique Theorique)

Contribution ID: 2

Type: **not specified**

A New Class of Integrable Field Theories

Monday, 19 August 2019 11:20 (50 minutes)

Presenter: Prof. YAMAZAKI, Masahito (Kavli IPMU, University of Tokyo)

Contribution ID: 3

Type: **not specified**

AdS black holes and deconfinement

Tuesday, 20 August 2019 10:30 (50 minutes)

Presenter: KIM, Seok

Contribution ID: 4

Type: **not specified**

Five-Point Function of N=4 SYM from IIB Supergravity

Tuesday, 20 August 2019 11:20 (50 minutes)

Presenter: Dr ZHOU, Xinan (Princeton University)

Contribution ID: 5

Type: **not specified**

T_N, Toda and Topological strings

Wednesday, 21 August 2019 09:30 (50 minutes)

Presenter: POMONI, Elli

Contribution ID: 6

Type: **not specified**

Exact AdS/CFT duality from the worldsheet I

Wednesday, 21 August 2019 10:50 (50 minutes)

Presenter: GABERDIEL, Matthias (ETHZ - ETH Zurich)

Contribution ID: 7

Type: **not specified**

Exact AdS/CFT duality from the worldsheet II

Wednesday, 21 August 2019 11:40 (50 minutes)

Presenter: Dr EBERHARDT, Lorenz (ETH)

Contribution ID: 8

Type: **not specified**

Integrability and Renormalization under T Tbar

Thursday, 22 August 2019 10:30 (50 minutes)

Presenter: Dr ROSENHAUS, Vladimir (IAS)

Contribution ID: 9

Type: **not specified**

Exact Matrix Product States and other exact holography inspired constructions

Thursday, 22 August 2019 11:20 (50 minutes)

Presenter: JANIK, Romuald

Contribution ID: **10**

Type: **not specified**

Surface operators in the 6d $N=(2,0)$ theory

Friday, 23 August 2019 10:30 (50 minutes)

Presenter: DRUKKER, Nadav (Humboldt University)

Contribution ID: 11

Type: **not specified**

Applying twists to holography

Friday, 23 August 2019 11:20 (50 minutes)

Presenter: Dr ISHTIAQUE, Nafiz (Perimeter Institute)

Contribution ID: 12

Type: **not specified**

Exact perturbative results for the Lieb-Liniger and Gaudin-Yang models

Presenter: MARINO BEIRAS, Marcos

Contribution ID: **13**

Type: **not specified**

TBA

Presenter: PENATI, Silvia (University of Milano-Bicocca)

Contribution ID: 14

Type: **not specified**

Holography and Supersymmetric Localization: An Amalgam of Exact Results

Monday, 26 August 2019 09:30 (50 minutes)

Presenter: Prof. BOBEV, Nikolay (KU Leuven Association)

Contribution ID: 15

Type: **not specified**

On QFT in dS

Monday, 26 August 2019 10:50 (50 minutes)

Presenter: Dr GORBENKO, Victor (NYU)

Contribution ID: **16**

Type: **not specified**

Flux Tube S-matrix Bootstrap

Tuesday, 27 August 2019 10:30 (50 minutes)

Presenter: PENEDONES, Joao (EPFL)

Contribution ID: 17

Type: **not specified**

D-instantons and the non-perturbative completion of $c=1$ string theory

Tuesday, 27 August 2019 11:20 (50 minutes)

Presenter: YIN, Xi (Harvard University)

Contribution ID: 18

Type: **not specified**

From supergravity to localization (and maybe back) in $N=2^*$ theory

Wednesday, 28 August 2019 09:30 (50 minutes)

Presenter: Prof. ZAREMBO, Konstantin (Nordita)

Contribution ID: 19

Type: **not specified**

Holographic correlators and supersymmetric localization

Wednesday, 28 August 2019 10:50 (50 minutes)

Presenter: Prof. PUFU, Silviu (Princeton University)

Contribution ID: **20**

Type: **not specified**

Exact null octagon

Wednesday, 28 August 2019 11:40 (50 minutes)

Presenter: Prof. KORCHEMSKY, Gregory (saclay)

Contribution ID: 21

Type: **not specified**

On Numbers and Functions in Quantum Field Theory

Thursday, 29 August 2019 10:30 (50 minutes)

Presenter: Dr WILHELM, Matthias (NBIA)

Contribution ID: 22

Type: **not specified**

Structure constants at strong coupling from hexagons

Thursday, 29 August 2019 11:20 (50 minutes)

Presenter: Prof. BASSO, Benjamin (ENS Paris)

Contribution ID: 23

Type: **not specified**

S-matrix bootstrap: Integrable models from minimization of functionals

Friday, 30 August 2019 10:30 (50 minutes)

If we consider the S-matrix in a subspace of states (for example 2-particle states) and impose the general constraints of unitarity, crossing, analyticity and global symmetries, we find that the allowed space of S-matrices is convex. At the boundary of such convex space we find interesting points such as vertices where in some cases integrable models are located. Such vertices can be found by maximizing linear functionals.

In this talk I will consider the 2d $O(N)$ integrable model and show that it indeed appears at a vertex of the space of allowed S-matrices, discuss how to visualize such space and introduce the so called dual minimization problem that allows to prove several interesting properties of this approach. In particular we show that we always obtain an S-matrix that saturates unitarity (no particle creation). It is an open problem to see if this method leads to interesting results for the world-sheet S-matrix (although the $O(6)$ model is already of interest for AdS/CFT).

Presenter: Prof. KRUCZENSKI, Martin (Purdue University)

Contribution ID: 24

Type: **not specified**

Maximal super Yang-Mills on spheres

Friday, 30 August 2019 11:20 (50 minutes)

Presenter: Prof. MINAHAN, Joseph (Uppsala University)

Contribution ID: 25

Type: **not specified**

Coffee

Friday, 30 August 2019 09:45 (45 minutes)

Contribution ID: 26

Type: **not specified**

Coffee

Monday, 19 August 2019 09:45 (45 minutes)

Contribution ID: 27

Type: **not specified**

Coffee

Tuesday, 20 August 2019 09:45 (45 minutes)

Contribution ID: **28**

Type: **not specified**

Coffee

Wednesday, 21 August 2019 10:20 (30 minutes)

Contribution ID: **29**

Type: **not specified**

Coffee

Thursday, 22 August 2019 09:45 (45 minutes)

Contribution ID: **30**

Type: **not specified**

Coffee

Friday, 23 August 2019 09:45 (45 minutes)

Contribution ID: **31**

Type: **not specified**

Coffee

Monday, 26 August 2019 10:20 (30 minutes)

Contribution ID: **32**

Type: **not specified**

Coffee

Tuesday, 27 August 2019 09:45 (45 minutes)

Contribution ID: **33**

Type: **not specified**

Coffee

Wednesday, 28 August 2019 10:20 (30 minutes)

Contribution ID: **34**

Type: **not specified**

Coffee

Thursday, 29 August 2019 09:45 (45 minutes)

Contribution ID: 35

Type: **not specified**

TBA

Presenter: PENATI, Silvia (University of Milano-Bicocca)

Contribution ID: **36**

Type: **not specified**

BPS Wilson loops in AdS₄/CFT₃

Monday, 26 August 2019 11:40 (50 minutes)

Presenter: PENATI, Silvia (University of Milano-Bicocca)

Contribution ID: 37

Type: **not specified**

Dinner

Wednesday, 28 August 2019 19:00 (1 hour)