

Strings 2017

Tel Aviv, Israel
June 26-30, 2017



PROGRAM

www.strings2017.org

King David depicted as Orpheus in a synagogue mosaic, 508 CE.
Collection the Israel Antiquities Authority | Photo © The Israel Museum,
Jerusalem, by Abraham Hay



Strings 2017 Schedule

	Monday June 26	Tuesday June 27	Wednesday June 28	Thursday June 29	Friday June 30
From 07:30	Registration				
08:50-09:00	Opening				
Chairperson	Lüst	Wadia	Erdmenger	Lee	Henneaux
09:00-09:30	Stanford	Alday	Donos	Carrasco	Engelhardt
09:30-10:00					Kutasov
10:00-10:30	Maldacena	Rastelli	Loganayagam	Arkani-Hamed	Uhlemann
10:30-11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
Chairperson	Hubeny	Lozano	Rangamani	Gaberdiel	Gross
11:00-11:30	Shenker	Caron-Huot	Minwalla	Penedones	(*) Special AdS/CFT Session
11:30-12:00	Takayanagi	Kaplan	Landsteiner	Zhiboedov	
12:00-12:30	Jafferis	Yin	Liu	Geyer	
12:30-14:00	Lunch	Lunch	Lunch	Lunch	Lunch
Chairperson	Kiritsis	Kapustin	Louis	Vandoren	Optional Half-day Tour of Jerusalem Departure: 13:30
14:00-14:30	Seiberg	Dumitrescu	Kim	Vieira	
14:30-15:00	Son				
15:00-15:30	Tachikawa	Garcia-Etxebarria	Schafer-Nameki	Dubovsky	
15:30-16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
Chairperson	Razamat	Rabinovici	Penati	Tseytlin	
16:00-16:30	Warner	Cheng	Gukov	Forini	
16:30-17:00	Gong Show	Brown	Strominger	Raju	
17:00-17:30		Myers	Gender and Diversity Issues	Sen	
17:30-19:00	Poster Session		Social Activities 17:30-20:00		
19:00	Reception (Pool Area)			19:30 Conference Banquet Departure: 19:00	
19:30					
(*) The special session celebrating 20 years of the AdS/CFT correspondence will contain presentations by Gross, Herzog, Klebanov, Maldacena, Ooguri and Witten					
The special session on gender and diversity issues will be introduced by Andrew Strominger and presented by Marika Taylor.					

Sunday, June 25 (Pre-Conference)	
18:00-20:00	Registration (Hotel lobby near the Hotel's Reception)
All day	Optional sightseeing tours
Saturday, July 1 (Post-Conference)	
All day	Optional sightseeing tours

PROGRAM

Monday, June 26, 2017

From 07:30 Registration (Floor H – Convention Center)

08:50-09:00 OPENING OF THE CONFERENCE

Yaron Oz, Tel Aviv University

David Gross, University of California Santa Barbara, USA

Chairperson: **Dieter Lüst**, MPI for Physics, Germany

09:00-10:00 What's up with the SYK Model?

Douglas Stanford, IAS, Princeton, USA

10:00-10:30 Diving into Traversable Wormholes

Juan Maldacena, IAS, Princeton, USA

10:30-11:00 *Coffee Break*

Chairperson: **Veronika Hubeny**, UC Davis, USA

11:00-11:30 Black Holes and Random Matrices

Stephen Shenker, Stanford University, USA

11:30-12:00 AdS from Optimization of Path-Integrals in CFTs

Tadashi Takayanagi, YITP, Kyoto University, Japan

12:00-12:30 Bulk Reconstruction and the Hartle-Hawking Wavefunction

Daniel Jafferis, Harvard University, USA

12:30-14:00 *Lunch*

Chairperson: **Elias Kiritsis**, APC, Paris and University of Crete, Greece

14:00-14:30 New Phases of QCD3 and QCD4

Nathan Seiberg, IAS, Princeton, USA

14:30-15:00 Fractional Quantum Hall Effect and Duality

Dam Thanh Son, University of Chicago, USA

15:00-15:30

Time-reversal Anomalies of 2+1d Topological Phases

Yuji Tachikawa, IPMU, Tokyo University, Japan

15:30-16:00 *Coffee Break*

Chairperson: **Shlomo Razamat**, Technion-Israel Institute of Technology, Israel

16:00-16:30 Microstate Geometries Deep Inside the Black-Hole Regime

Nicholas Warner, USC, Los Angeles, USA

Monday, June 26, 2017 (continued)

16:30-17:30 GONG SHOW

- Vertex Algebras at the Corner
Miroslav Rapcak, Perimeter Institute, Canada
- Entanglement in Gauge Theories
Ronak Soni, Tata Institute, India
- Unexpected Low Energy Spectral Weight in Holographic Theories
Victoria Martin, Stanford University, USA
- New N=2 vortex-strings and their Worldsheet Theories
Avner Karasik, Weizmann Institute of Science, Israel
- Euler Characteristics of Crepant Resolutions of Weierstrass Models
Monica Kang, Harvard University, USA
- The a Theorem and the Markov Property of the Vacuum
Eduardo Teste Lino, Centro Atomico Bariloche, Argentina
- Symmetries of Feynman Integrals
Ruth Shir, The Hebrew University of Jerusalem, Israel
- Punctures for Theories of Class $S_{\{ADE\}}$
Thomas Rudelius, Harvard University, USA
- Schwinger-Keldysh effective field theories
Natalia Pinzani Fokeeva, Technion-Israel Institute of Technology, Israel
- Constraints on Axion Monodromy from the Refined Swampland Conjecture
Irene Valenzuela, MPI Munich, Germany
- Ungauging finite non-abelian gauge groups in 2d
Lakshya Bhardwaj, Perimeter Institute, Canada
- Bootstrapping 3d Fermions
Luca Iliesiu, Princeton University, USA

17:30-19:00 POSTER SESSION

(view [list of posters](#) on the website)

19:00-21:00 **Reception** – ticket required (Pool area – floor L)

Tuesday, June 27, 2017

Chairperson: **Spenta Wadia**, ICTS-TIFR, India

- 09:00-10:00 The Analytic Conformal Bootstrap
Luis Fernando Alday, Oxford University, UK
- 10:00-10:30 How to Succeed at Holographic Correlators without Really Trying
Leonardo Rastelli, YITP, Stony Brook University, USA
- 10:30-11:00 *Coffee Break*
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Chairperson: **Yolanda Lozano**, University of Oviedo, Spain

- 11:00-11:30 Bulk Causality from the Conformal Bootstrap
Simon Caron-Huot, McGill University, Canada
- 11:30-12:00 AdS₃/CFT₂ and the Information Paradox
Jared Kaplan, Johns Hopkins University, USA
- 12:00-12:30 Genus Two Modular Bootstrap
Xi Yin, Harvard University, USA
- 12:30-14:00 *Lunch*
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Chairperson: **Anton Kapustin**, California Institute of Technology, USA

- 14:00-15:00 General Aspects of Renormalization Group Flows in Diverse Dimensions
Thomas Dumitrescu, Harvard University, USA
- 15:00-15:30 New N=4 Theories in Four Dimensions
Inaki Garcia-Etxebarria, MPI Munich, Germany
- 15:30-16:00 *Coffee Break*
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Chairperson: **Eliezer Rabinovici**, The Hebrew University of Jerusalem, Israel

- 16:00-16:30 Progress on Moonshine
Miranda Cheng, Amsterdam University, Netherlands
- 16:30-17:00 Complexity and Geometry
Adam Brown, Stanford University, USA
- 17:00-17:30 Holographic Complexity
Robert Myers, Perimeter Institute, Canada

Wednesday, June 28, 2017

Chairperson: **Johanna Erdmenger**, *Wuerzburg University, Germany*

- 09:00-10:00 Incoherent Transport and Black Holes
Aristomenis Donos, Durham University, UK
- 10:00-10:30 Out of Equilibrium, Out of Time Order
R. Loganayagam, ICTS-TIFR, Bangalore, India
- 10:30-11:00 *Coffee Break*
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Chairperson: **Mukund Rangamani**, *UC Davis, USA*

- 11:00-11:30 Flows, Fixed Points and Duality in Matter Chern Simons Theories
Shiraz Minwalla, TIFR, Mumbai, India
- 11:30-12:00 Anomalous Transport from Anti de-Sitter Space to Weyl Semimetals
Karl Landsteiner, Universidad Autonoma de Madrid, Spain
- 12:00-12:30 Emergent Entropy
Hong Liu, MIT, USA
- 12:30-14:00 *Lunch*
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Chairperson: **Jan Louis**, *Hamburg University, Germany*

- 14:00-15:00 Advances in 5d/6d QFTs
Seok Kim, Seoul National University, South Korea
- 15:00-15:30 F-theory and AdS₃/CFT₂
Sakura Schafer-Nameki, Oxford University, UK
- 15:30-16:00 *Coffee Break*
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Chairperson: **Silvia Penati**, *University of Milano-Bicocca, Italy*

- 16:00-16:30 Disk Amplitudes and the Magnificent Three
Sergei Gukov, Caltech, USA
- 16:30-17:00 Infrared Divergences in QED and Quantum Gravity
Andrew Strominger, Harvard University, USA
- 17:00-17:30 **GENDER AND DIVERSITY ISSUES**
Introduction:
Andrew Strominger, Harvard University, USA
Presentation:
Marika Taylor, Southampton University, UK
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Wednesday, June 28, 2017 (continued)

Social Activities

17:30-

20:00

Old Jaffa Walking Tour

Departure: from the conference coffee area

17:30-

20:00

**Segway Tour: Tel Aviv Promenade towards
Jaffa Port**

(Ticket required)

Departure: from the Hotel's Reception (floor L)

17:30-

20:00

Folk Dances

Departure: from the Hotel's Reception (floor L)

18:00-

22:00

**Symposium on "Is the two-state solution still viable? If yes, what can help
make it happen, if no, what is the alternative?"**

At the School for Peace Neve Shalom/Wahat Al Salam.

(Ticket required)

Departure: from the Hotel's Reception (floor L)

Chairperson: **Kimyeong Lee**, Korea Institute for Advanced Study, South Korea

- 09:00-10:00 Recent progress from amplitudes
John Joseph Carrasco, IPhT, Saclay, France
- 10:00-10:30 Amplitudes and Correlators as Canonical Forms; Worldsheets as Positive Geometries
Nima Arkani-Hamed, IAS, Princeton, USA
- 10:30-11:00 *Coffee Break*
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Chairperson: **Matthias Gaberdiel**, ETH Zurich, Switzerland

- 11:00-11:30 S-matrix Bootstrap Revisited
Joao Penedones, EPFL, Lausanne, Switzerland
- 11:30-12:00 Universal Correction to the Veneziano Amplitude
Alexander Zhiboedov, Harvard University, USA
- 12:00-12:30 Ambitwistor Strings beyond Tree-level
Yvonne Geyer, IAS, Princeton, USA
- 12:30-14:00 *Lunch*
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Chairperson: **Stefan Vandoren**, Utrecht University, Netherlands

- 14:00-15:00 Divide and Conquer. An Integrability Status Report
Pedro Vieira, Perimeter Institute, Canada
- 15:00-15:30 QCD Strings and Jackiw-Teitelboim Gravity
Sergei Dubovsky, New York University, USA
- 15:30-16:00 *Coffee Break*
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Chairperson: **Arkady Tseytlin**, Imperial College, UK

- 16:00-16:30 Green-Schwarz Superstring on a Lattice
Valentina Forini, Humboldt University, Germany
- 16:30-17:00 Breakdown of String Perturbation Theory and Implications for Locality in Gravity
Suvrat Raju, ICTS-TIFR, Bangalore, India
- 17:00-17:30 Soft Graviton Theorem in Generic Quantum Theory of Gravity
Ashoke Sen, Harish-Chandra Research Inst., India
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19:30-22:30 *Conference Banquet at PORT 15 – Old Jaffa*

15, Hatzorfim Street, Old Jaffa

Departure: at 19:00 from two locations:

- *Dan Panorama Hotel's* Reception (floor L)
- *Metropolitan Hotel* (11 Trumpeldor Street)
for participants staying at the Metropolitan, Arcadia Tower, Mercure, Maxim & Deborah hotels.

Participants not staying in one of the above conference hotels, may join the transportation at any location most convenient for them.

Chairperson: **Marc Henneaux**, *Universite' Libre de Bruxelles, Belgium*

09:00-09:30 The Apparent Horizon in AdS/CFT: Coarse Graining Entanglement
Netta Engelhardt, Princeton University, USA

09:30-10:00
A Solvable Irrelevant Deformation of AdS₃/CFT₂
David Kutasov, University of Chicago, USA

10:00-10:30 Holographic Duals for 5d SCFTs
Christoph Uhlemann, UCLA, USA

10:30-11:00 *Coffee Break*

11:00-12:30 **SPECIAL SESSION CELEBRATING 20 YEARS OF THE AdS/CFT
CORRESPONDENCE**

Chairperson: **David Gross**, *University of California, Santa Barbara, USA*

- **Juan Maldacena**, IAS, Princeton, USA
- **Igor Klebanov**, Princeton University, USA
- **Edward Witten**, IAS, Princeton, USA
- **Christopher Herzog**, YITP, Stony Brook University, USA
(Applied AdS/CFT)
- **Hiroshi Ooguri**, Caltech, USA and IPMU, Japan
(AdS/CFT in your everyday life)
- **David Gross**, UC Santa Barbara, USA

12:30-14:00 *Lunch*

13:30-19:00 **Optional Half-day Tour to Jerusalem**
Departure: 13:30 from the Dan Panorama Reception

Conference Secretariat



Diesenhaus-Unitours Incoming Tourism Ltd.

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