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KITP Conference: Scattering Amplitudes: from Gauge Theory to Gravity

(Apr 3 - Jun 30, 2017)

Coordinators: Radu Roiban, Gabriele Travaglini, and Jaroslav Trnka

Monday, Apr 17, 2017

Session Chair: Gabriele Travaglini (QMUL)

8:50am	Lars Bildsten (KITP)	Welcome
9:00am	Johannes Henn (Mainz)	Surprising simplicity of massive scattering amplitudes
10:00am		Morning Break
10:30am	Matthias Staudacher (Humboldt)	Maximally Compact Feynman Integrals and Integrability
11:30am	John Joseph Carrasco (CEA)	Playful Constructions in Double Copy Predictions
12:30pm		Lunch Break

Session Chair: Jaroslav Trnka (UC Davis)

2:00pm	Andreas Brandhuber (QMUL)	The Many Uses of Form Factors
3:00pm		Afternoon Break
3:30pm	James Drummond (Southampton)	The Cluster Bootstrap and Multi-Regge Kinematics
4:30pm	Congkao Wen (Caltech)	A Unified Web of Tree-level S-matrix
5:30pm		SHUTTLE TO BWSCI

Tuesday, Apr 18, 2017

Session Chair: Livia Ferro (Munich)

9:00am	Michael Green (Cambridge & QMUL)	Scattering in a Horava-Witten Background
10:00am		Morning Break
10:30am	Stephan Stieberger (MPP)	Monodromy Relations in Higher-Loop String Amplitudes
11:30am	Emil Bjerrum-Bohr (NBI)	Amplitudes From Scattering Equations and the Color-kinematics Duality
12:30pm		Lunch Break

Session Chair: Eric D'Hoker (UCLA)

2:00pm	Ricardo Monteiro (QMUL)	Space-time CFTs from the Riemann Sphere
3:00pm		Afternoon Break
3:30pm	Yvonne Geyer (IAS)	Loop Amplitudes from Ambitwistor Strings
4:30pm	Oliver Schlotterer (MPI-AEI)	Loop-level Relations for Gauge-Theory and Gravity Amplitudes

5:30pm **RECEPTION**

6:00pm **SPECIAL EVENTS DINNER**

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

Wednesday, Apr 19, 2017

Session Chair: Bo Feng (Zhejiang)

9:00am Andy Strominger (Harvard) Virasoro Symmetry of the Quantum Gravity S-matrix

10:00am **Morning Break**

10:30am Paul Heslop (Durham) The Correlahedron

11:30am Susama Agarwala (USNA) Wilson Loop Diagrams and the Positive Grassmannians

12:30pm **Lunch Break**

2:00pm **FREE AFTERNOON Shuttle Available to BWSCI**

Thursday, Apr 20, 2017

Session Chair: Jan Plefka (Humboldt)

9:00am Livia Ferro (Munich) Symmetries of the Amplituhedron

10:30am Lauren Williams (Berkeley) Combinatorics of the (tree) Amplituhedron

11:30am Hugh Thomas (UQAM / CRM) Unwinding the Amplituhedron

12:30pm **Lunch Break**

Session Chair: Zvi Bern (UCLA)

2:00pm Jacob Bourjaily (NBI) Stratifying On-Shell Cluster Varieties

3:00pm **Afternoon Break**

3:30pm Song He (Beijing) Scattering Amplitudes as Differential Forms

4:30pm Nima Arkani-Hamed (IAS) New Frontiers in Scattering Amplitudes

5:30pm **RECEPTION**

6:00pm **SPECIAL EVENTS DINNER**

8:00pm **SHUTTLE TO BWSCI**

Friday, Apr 21, 2017

Session Chair: Michael Green (Cambridge & QMUL)

9:00am Arkady Tseytlin (Imperial) On Scattering of Higher Spins in Flat Space

10:00am **Morning Break**

10:30am Henrik Johansson (Uppsala) Constructing Gravity Theories from Gauge Theories

11:30am Zvi Bern (UCLA) Generalized Double Copies and the Five-Loop Integrand of $N = 8$ Supergravity

12:30pm **Lunch Break**

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