

Amplitudes 2019

Monday, July 1, 2019

Plenary: Monday morning (9:30 AM - 12:55 PM)

-Conveners: Donal O'Connell

time	[id] title	presenter
9:30 AM	[M] Precision physics at the LHC: what and how	MELNIKOV, Kirill
10:20 AM	[M] Four-loop quark form factor with quartic fundamental colour factor	SMIRNOV, Vladimir
10:55 AM	Break	
11:45 AM	[S] MIGPLs for Feynman integrals with unrationalizable algebraic symbol letters	SCHABINGER, Robert
12:20 PM	[P] Feynman integrals and higher-genus surfaces	TANCREDI, Lorenzo

Plenary: Monday afternoon (2:15 PM - 5:25 PM)

-Conveners: John Joseph Carrasco

time	[id] title	presenter
2:15 PM	[P] Amplitudes with reduced supersymmetry in gauge theory and gravity	JOHANSSON, Henrik
2:50 PM	[P] From the double-copy to twin superconformal field theories	BORSTEN, Leron
3:25 PM	Break	
4:15 PM	[M] Two-Loop Integrands from the Scattering Equations	MONTEIRO, Ricardo
4:50 PM	[M] Classical effective action of dilaton gravity and the double copy	PLEFKA, Jan

Tuesday, July 2, 2019

Plenary: Tuesday morning (9:30 AM - 12:55 PM)

-Conveners: **Andreas Brandhuber**

time	[id] title	presenter
9:30 AM	[M3] Multi-hadron amplitudes from lattice QCD	HANSEN, Maxwell
10:20 AM	[M6] From Scattering Amplitudes to Classical Observables	KOSOWER, David
10:55 AM	[M9] Posters	
10:55 AM	Poster Session	
11:45 AM	[M6] Positivity Bounds in Effective Field Theories	TOLLEY, Andrew
12:20 PM	[M9] Energy-Energy Correlation at Small Angles	DIXON, Lance

Plenary: Tuesday afternoon (2:15 PM - 5:25 PM)

-Conveners: **Claude Duhr**

time	[id] title	presenter
2:15 PM	[M2] Amplitudes and cohomology	BROWN, Francis
2:50 PM	[M3] String amplitudes from genus zero to genus one	ZERBINI, Federico
3:25 PM	Poster Session	
4:15 PM	[M4] One-loop superstring amplitudes	MAFRA, Carlos
4:50 PM	[M5] Modular Forms and U(1)-violating amplitudes in type IIB superstring theory	WEN, Congkao

Wednesday, July 3, 2019

Plenary: Wednesday morning (9:30 AM - 12:55 PM)

-Conveners: Vittorio Del Duca

time	[id] title	presenter
9:30 AM	[10] (Binary) Positive Geometry of (Generalized) Causal Diamonds, Particles and Strings	ARKANI-HAMED, Nima
10:20 AM	[10] Hexagon Functions to Seven Loops	VON HIPPEL, Matthew
10:55 AM	Break	
11:45 AM	[20] Scattering amplitudes as cluster-adjacent polylogarithms	GÜRDOĞAN, Ömer
12:20 PM	[21] Cluster Adjacency, Celestial Amplitudes and Other Topics	VOLOVICH, Anastasia

Thursday, July 4, 2019

Plenary: Thursday morning (9:30 AM - 12:55 PM)

-Conveners: Simon Caron-Huot

time	[id] title	presenter
9:30 AM	[M6] The black hole S matrix	ROTHSTEIN, Ira
10:20 AM	[M7] Scattering of spinning black holes from amplitudes	OCHIROV, Alexander
10:55 AM	Break	
11:45 AM	[M8] Amplitudes in N=4 SYM in the High-Energy Limit	VERBEEK, Bram
12:20 PM	[M9] Orbital Dynamics for LIGO/Virgo from the Double Copy and EFT	BERN, Zvi

Plenary: Thursday afternoon (2:15 PM - 5:25 PM)

-Conveners: Jaroslav Trnka

time	[id] title	presenter
2:15 PM	[M1] The Momentum Amplituhedron	FERRO, Livia
2:50 PM	[M2] From scattering amplitudes to cosmological observables	BENINCASA, Paolo
3:25 PM	Break	
4:15 PM	[M9] Loop recursion and dual conformal symmetry for form factors	BIANCHI, Lorenzo
4:50 PM	[M3] Analytic results for complete five-particle scattering amplitudes at NNLO	HENN, Johannes

Friday, July 5, 2019

Plenary: Friday morning (9:30 AM - 12:55 PM)

-Conveners: Marcus Spradlin

time	[id] title	presenter
9:30 AM	[M4] Gravitational deflection/radiation in/from trans-planckian-energy collisions	VENEZIANO, Gabriele
10:20 AM	[M5] Massive S-matrix from minimal coupling to black holes	LEE , Sangmin
10:55 AM	Break	
11:45 AM	[M6] Monodromy relations from twisted homology	CASALI, Eduardo
12:20 PM	[M7] Gravity integrands from the UV	HERRMANN, Enrico

Plenary: Friday afternoon (2:15 PM - 5:25 PM)

-Conveners: Einar Gardi

time	[id] title	presenter
2:15 PM	[M8] Cutting and sewing of amplitudes	WEINZIERL, Stefan
2:50 PM	[M9] Feynman Integrals and Intersection Theory	MASTROLIA, Pierpaolo
3:25 PM	Break	
4:15 PM	[M10] The Analytic Structure of Five-Parton Amplitudes for LHC Phenomenology at NNLO	PAGE, Ben
4:50 PM	[M11] Adventures in Perturbation Theory	BOURJAILY, Jacob