Workshop Schedule

Tropical Geometry and Infrared Divergences: Heated Discussions on Cool Topics

October 2-6, 2023

Location: **Rubenstein Commons, Meeting Room 5** (unless noted otherwise)

Updated: 9/29/23

Time:	Monday, October 2	Tuesday, October 3	Wednesday, October 4	Thursday, October 5	Friday, October 6
8:45-9:00 am	**Registration Bloomberg Lecture Hall**				
9:00-10:30 am	*T(r)opical Review* ~ Michael Borinsky ~Erik Panzer Bloomberg Lecture Hall	*Tropicalizing Infrared Divergences* ~ Aaron Hillman	*Infrared Divergences and Effective Field Theory* ~ Thomas Becher	*Multi-Loop Methods for Feynman Integrals* ~ Johannes Henn	*Understanding Long-Distance Singularities of Massless Scattering Amplitudes* ~ Einan Gardi ---------- *Geometric Expansion by Regions* ~ Johannes Schlenk
10:30-11:00 am	**Coffee Break Rubenstein Commons Café Area**	**Coffee Break Rubenstein Commons Café Area**	**Coffee Break Rubenstein Commons Café Area**	**Coffee Break Rubenstein Commons Café Area**	**Coffee Break Rubenstein Commons Café Area**
11:00 am-12:30 pm	*T(r)opical Review* ~ Michael Borinsky ~ Erik Panzer Bloomberg Lecture Hall	*Tropicalizing Infrared Divergences* ~ Aaron Hillman	*Infrared Divergences and Effective Field Theory* ~ Thomas Becher	*Multi-Loop Methods for Feynman Integrals* ~ Johannes Henn	*The Dark-Matter Problem of the Moduli Space of Curves and its (Partial) Tropical Solution* ~ Michael Borinsky Wolfensohn Hall
1:00-2:00 pm	**Lunch Simons Hall**	**Lunch Simons Hall**	**Lunch Simons Hall**	**Lunch Simons Hall**	**Lunch Simons Hall**
2:30-3:30 pm	*Optional Seminar: Symmetry Resolution at High Energy ~ Hirosi Ooguri Wolfensohn Hall*	*Computing Energy Correlators with Finite Integration by Parts* ~ Kai Yan ---------- *Loop-Tree Duality* ~ Stefan Weinzierl	*Exploring the Infrared Structure of Massless Gauge Theories* ~ Lorenzo Magnea Wolfensohn Hall	*How Landau and Newton Help Feynman in Computing his Integrals* ~ Giulio Salvatori ----------	
3:30-4:30 pm	**Afternoon Tea Fuld Hall Common Room**	**Afternoon Tea Fuld Hall Common Room**	**Afternoon Tea Fuld Hall Common Room**	**Afternoon Tea Fuld Hall Common Room**	
5:00-5:30 pm	*Hard-Scattering Factorization: The Link Between Full QCD and Massless Perturbative Calculations* ~ John Collins	*Local Infrared Safety in Time-Ordered Perturbation Theory* ~ Aniruddha Venkata	*Principal Landau Determinants: Part 1* ~ Claudia Fevola		
5:30-6:00 pm	*Factorisation Theorems and Moduli Spaces of Tropical Curves* ~ Francis Brown	*Taming IR Divergences: Locally-Finite Integrands and their Application to Amplitudes* ~ Giulio Gambuti	*Principal Landau Determinants: Part 2* ~ Simon Telen		
6:30 pm	**Dinner Rubenstein Commons Café Area**	**Dinner Rubenstein Commons Café Area**	**Dinner Simons Hall**	**Dinner Rubenstein Commons Café Area**	