YOUNGST@RS - Loop-the-Loop: Feynman Calculus and its Applications to Gravity and Particle Physics

Tuesday 12 November 2024

Applied Mathematics for Feynman Calculus: Integration-by-parts & Computational Techniques (10:30 - 12:00)

time	[id] title	presenter
10:30	[3] Syzygy method of integration by parts	MA, Rourou
11:00	[4] Two-loop five-point two-mass Feynman integrals	ZOIA, Simone
11:30	[5] Series expansion approach and application to 2L mixed QCD-EW corrections to Drell-Yan	ARMADILLO, Tommaso

Applied Mathematics for Feynman Calculus: Intersection Theory (13:30 - 15:00)

time	[id] title	presenter
13:30	[6] Intersecting companion matrices for Feynman integrals	CHESTNOV, Vsevolod
14:00	[7] Twisted Cohomology & Canonical Differential Equations	PORKERT, Franziska
14:30	[8] Recent advancements and hidden structures in intersection numbers for Feynman Integrals	CRISANTI, Giulio

Applied Mathematics for Feynman Calculus: Analytic Structure of Feynman Integrals (15:30 - 17:00)

time	[id] title	presenter
15:30	[9] Systematically evaluate cosmological correlators by IBP and differential equations	CHEN, Jiaqi
16:00	[10] Minimal Cuts and Genealogical Constraints on Feynman Integrals	POLACKOVA, Maria
16:30	[11] Progress in Landau Analysis	GIROUX, Mathieu