

Week 1, Mini-Courses I of the Thematic Programme on
“Amplitudes and Algebraic Geometry”

February 16 - 20, 2026

organized by

Daniele Agostini (U Tübingen), Lara Bossinger (UNAM, Oaxaca), Ruth Britto (Trinity College, Dublin), Johannes Henn (MPP, Munich), Jianrong Li (U of Vienna), Anna-Laura Sattelberger (MPI MIS, Leipzig), Oliver Schlotterer (Uppsala U)

- **Monday, February 16th, 2026**

09:00 – 09:20 **Registration**

09:20 – 09:30 **Welcome and information**

09:30 – 10:45 **Bernd Sturmfels (MPI MIS, Leipzig)**

Kinematic Varieties I: Massless Particles

10:45 – 11:15 **Coffee break**

11:15 – 12:30 **Lorenzo Tancredi (TU Munich)**

Feynman Integrals I

12:30 – 14:15 **Lunch break**

14:15 – 15:30 **Melissa Sherman-Bennett (UC Davis)**

Amplituhedra I: Crash course on the totally nonnegative Grassmannian

15:30 – 16:00 **Coffee break**

16:00 – 16:45 **Q & A: Kinematic Varieties**

- **Tuesday, February 17th, 2026**

09:30 – 10:45 **Bernd Sturmfels (MPI MIS, Leipzig)**

Kinematic Varieties II: Gram Matrices

10:45 – 11:15 **Coffee break**

11:15 – 12:30 **Lorenzo Tancredi (TU Munich)**

Feynman Integrals II

12:30 – 14:15 **Lunch break**

14:15 – 15:30 **Melissa Sherman-Bennett (UC Davis)**

Amplituhedra II: Amplituhedron basics and big questions

15:30 – 16:00 **Coffee break**

16:00 – 16:45 **Q & A: Feynman Integrals**

- **Wednesday, February 18th, 2026**

09:30 – 10:45 **Bernd Sturmfels (MPI MIS, Leipzig)**

Kinematic Varieties III: Let's Get Real

10:45 – 11:15 **Coffee break**

11:15 – 12:30 **Lorenzo Tancredi (TU Munich)**

Feynman Integrals III

12:30 – 14:15 **Lunch break**

14:15 – 15:30 **Melissa Sherman-Bennett (UC Davis)**

Amplituhedra III: Combinatorics and geometry for $m=1,2$

15:30 – 16:00 **Coffee break**

16:00 – 16:45 **Q & A: Amplituhedra**

- **Thursday, February 19th, 2026**

09:30 – 10:45 **Bernd Sturmfels (MPI MIS, Leipzig)**

Kinematic Varieties IV: Lines in 3-Space

10:45 – 11:15 **Coffee break**

11:15 – 12:30 **Lorenzo Tancredi (TU Munich)**

Feynman Integrals IV

12:30 – 14:15 **Lunch break**

14:15 – 15:30 **Melissa Sherman-Bennett (UC Davis)**

Amplituhedra IV: Techniques for higher m

15:30 – 16:00 **Coffee break**

16:00 – 16:45 **Anna-Laura Sattelberger (MPI-MiS Leipzig)**

Math-physics communication

- **Friday, February 20th, 2026**

09:30 – 11:00 **Problem session**

Kinematic Varieties and Feynman Integrals

11:00 – 11:30 **Coffee break**

11:30 – 12:15 **Problem session**

Amplituhedra

12:15 – **Lunch break and free afternoon**

All talks take place at ESI Boltzmann Lecture Hall!