

## Geometric picture for scattering amplitudes

*Tuesday, July 12, 2016 9:00 AM (45 minutes)*

There has been a growing evidence that the standard formulation of Quantum Field Theory using path integrals and Feynman diagrams fails to explain unexpected simplicity and hidden symmetries of the scattering amplitudes. I show that in a certain gauge theory there exists a radically different picture for amplitudes as volumes of “Amplituhedron” which is a higher-dimensional generalization of convex polygons. I will also comment on the extension of this approach to other theories.

**Presenter:** TRNKA, Jaroslav (UC Davis)

**Session Classification:** Plenary