Contribution ID: 29 Type: not specified

## p-adic reconstruction of rational functions in loop calculations

Tuesday 16 April 2024 17:00 (30 minutes)

The calculation and manipulation of large multi-variable rational functions is a key bottleneck in multi-loop calculations. In this talk I will present work using p-adic numbers to reconstruct rational functions in a compact form. I will apply this to examples such as rational functions appearing in non-planar 2-loop 5-point amplitudes.

Author: CHAWDHRY, Herschel (Florida State University)

Presenter: CHAWDHRY, Herschel (Florida State University)

Session Classification: Parallel 3

Track Classification: Tools