

# **Scattering Amplitudes @ Liverpool**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# From Impossible to Doable: Complete Function Space for Two-Loop Six-Point Scattering Amplitudes

*Wednesday, 26 March 2025 14:30 (30 minutes)*

**Primary author:** MATIJAŠIĆ, Antonela

**Presenter:** MATIJAŠIĆ, Antonela

**Session Classification:** Analytic tools

Contribution ID: 2

Type: **not specified**

## **Progress on two-loop integrals for top-pair production plus a W boson**

*Wednesday, 26 March 2025 15:00 (30 minutes)*

**Primary author:** POZZOLI, Mattia

**Presenter:** POZZOLI, Mattia

**Session Classification:** Analytic tools

Contribution ID: 3

Type: **not specified**

## **$\varepsilon$ -factorised form and numerical evaluation for elliptic Feynman integrals in diphoton production**

*Wednesday, 26 March 2025 15:30 (30 minutes)*

**Primary author:** CORO, Federico

**Presenter:** CORO, Federico

**Session Classification:** Analytic tools

Contribution ID: 4

Type: **not specified**

# Efficient supercomputer-scale IBP reduction for Feynman integrals

*Wednesday, 26 March 2025 16:30 (30 minutes)*

**Primary author:** ZENG, Mao

**Presenter:** ZENG, Mao

**Session Classification:** Numerical tools

Contribution ID: 5

Type: **not specified**

## **Loop Integral Numerical Evaluation with LINE**

*Wednesday, 26 March 2025 17:00 (30 minutes)*

**Primary author:** RONCA, Jonathan

**Presenter:** RONCA, Jonathan

**Session Classification:** Numerical tools

Contribution ID: 6

Type: **not specified**

## **Fast evaluation of Feynman integrals for MC generators**

*Wednesday, 26 March 2025 17:30 (30 minutes)*

**Primary author:** PETIT ROSÀS, Pau

**Presenter:** PETIT ROSÀS, Pau

**Session Classification:** Numerical tools

Contribution ID: 7

Type: **not specified**

## **Modern techniques for Integration-by-parts reduction**

*Thursday, 27 March 2025 09:00 (25 minutes)*

**Presenter:** SMITH, Sid

**Session Classification:** Light talks



Contribution ID: 8

Type: **not specified**

## **Progress on three-loop four-point integrals with one massive leg**

*Thursday, 27 March 2025 09:30 (25 minutes)*

**Presenter:** LIM, Jungwon

**Session Classification:** Light talks

Contribution ID: 9

Type: **not specified**

## **Electroweak corrections to Higgs boson pair production in gluon fusion**

*Thursday, 27 March 2025 10:00 (25 minutes)*

**Presenter:** BONETTI, Marco

**Session Classification:** Light talks