

## **Session Program**

**21-23 Dec 2022**

# **Milan Christmas Meeting 2022**

***MCM22***

Università degli Studi di Milano and INFN sezione di Milano  
Aula Consiglio Dipartimento di Fisica, via Celoria 16, Milano

# Wednesday 21 December

14:30

## MCM22

**Session** |

**Location:** Università degli Studi di Milano and INFN sezione di Milano, Aula Consiglio Dipartimento di Fisica, via Celoria 16, Milano

14:30–14:50

### Precision Standard Model Phenomenology at N3LO and Beyond

**Speaker**

Dr Gherardo Vita

15:00–15:20

### Combining QED and QCD transverse-momentum resummation for electroweak boson production at hadron colliders

**Speaker**

Andrea Autieri

15:30–15:50

### Automatic evaluation of Feynman integrals using semi-analytical techniques

**Speaker**

Tommaso Armadillo

16:00–16:30

### coffee

16:30–16:50

### ttH production at the LHC and the top-to-Higgs fragmentation function

**Speakers**

Colomba Brancaccio, Colomba Brancaccio

17:00–17:20

### Off-shell predictions for associated production of top quarks with electroweak bosons at NLO accuracy

**Speakers**

Giovanni Pelliccioli, Giovanni Pelliccioli

17:30–17:50

### Multiboson production at a multi-TeV muon collider

**Speaker**

Eugenia Celada

18:05

# Thursday 22 December

09:30

## MCM22

**Session** |

**Location:** Università degli Studi di Milano and INFN sezione di Milano, Aula Consiglio Dipartimento di Fisica, via Celoria 16, Milano

10:00–10:20

### Implications of Conformal Symmetry for Scattering Amplitudes

**Speaker**

Simone Zoia

10:30–10:50

### Rational algorithms for the decomposition of Feynman Integrals via Intersection Theory

**Speaker**

Gaia Fontana

11:00–11:30

### coffee

11:30–11:50

### WZ production at NNLO QCD and NLO EW matched to parton showers

**Speaker**

Silvia Zanolì

12:00–12:20

### Pushing Parton Showers accuracy to Next-To-Leading Log

**Speaker**

Silvia Ferrario Ravasio

12:30–14:00

### lunch

14:00

14:00

## MCM22

**Session** |

**Location:** Università degli Studi di Milano and INFN sezione di Milano, Aula Consiglio Dipartimento di Fisica, via Celoria 16, Milano

14:30–14:50

### EW and QCD physics at the high energy muon collider

**Speaker**

Dr Yang Ma

15:00–15:20

### Initial state QED radiation for future lepton colliders

**Speakers**

Giovanni Stagnitto, Giovanni Stagnitto, Giovanni Stagnitto

15:30–15:50

### Muon-electron scattering at NNLO with McMule

**Speakers**

Marco Rocco, Marco Rocco

16:00–16:30

### coffee

16:40–17:00

### Missing higher order uncertainties in an NNPDF fit

**Speaker**

Andrea Barontini

17:10–17:30

**Theory uncertainty from missing higher orders****Speaker**

Marco Bonvini

17:40–18:00

**Quantum computers: a new frontier in HEP****Speaker**

Edoardo Pedicillo

18:00

# Friday 23 December

09:30

## MCM22

**Session** |

**Location:** Università degli Studi di Milano and INFN sezione di Milano, Aula Consiglio Dipartimento di Fisica, via Celoria 16, Milano

10:00–10:20

### New Flavour of Jet Flavor

**Speaker**

Simone Caletti

10:30–10:50

### Next-to-Leading Order virtual correction to Higgs-induced DIS

**Speaker**

Anna Rinaudo

11:00–11:30

### coffee

11:30–11:50

### TBA

**Speaker**

Andrea Ghira

12:00–12:20

### Renormalization group effects on SMEFT interpretations of LHC data

**Speakers**

Claudio Severi, Claudio Severi

12:30–12:50

### Towards N3LO QCD corrections to Higgs + Jet production

**Speaker**

Cesare Carlo Mella

12:50