

## **Session Program**

**2-4 Jun 2021**



# **Muon Collider Physics and Detector Workshop**

## ***Physics Potential***

Virtual world

## Thursday 3 June

14:00

### Physics Potential: Physics Potential

**Session** | **Location:** Virtual world | **Conveners:** Nathaniel Craig, Fabio Maltoni

14:00–14:20 **Large logs in EW computations**

**Speaker**

Davide Napoletano

14:20–14:25 **Discussion**

14:25–14:45 **Long lived and feebly interacting particles**

**Speaker**

José Francisco Zurita

14:45–14:50 **Discussion**

14:50–15:10 **Dark Matter**

**Speaker**

Liantao Wang

15:10–15:15 **Discussion**

15:15–15:35 **Higgs physics at the muon collider**

**Speaker**

Patrick Meade

15:35–15:40 **Discussion**

15:40–16:00

**Novel reconstruction techniques at current and future (muon) collider**

**Speaker**

Philip Coleman Harris

16:00–16:10 **Discussion**

16:10

## Friday 4 June

14:00

### Physics Potential: Physics Potential

**Session** | **Location:** Virtual world | **Conveners:** Michael Spannowsky, Andrea Wulzer

14:00–14:20 **Early Universe implications of double Higgs at the muon collider**

**Speaker**

Michael Ramsey-Musolf

14:20–14:25 **Discussion**

14:25–14:45 **Multi-jet final states (4/6 jets)**

**Speaker**

Mauro Chiesa

14:45–14:50 **Discussion**

14:50–15:10 **Quark and gluon contents of a lepton at high energies**

**Speaker**

Xie Keping

15:10–15:15 **Discussion**

15:15–15:35 **QCD-precision measurements using novel reconstruction techniques**

**Speaker**

Andrea Banfi

15:35–15:40 **Discussion**

15:40–16:00 **EW resummation**

**Speaker**

Christian Walter Bauer

16:00–16:25 **Discussion**

16:25