

# INTERNATIONAL PARTICLE PHYSICS MASTERCLASS

23<sup>rd</sup> and 24<sup>th</sup> of March 2020, 09:30 – 16:00  
Institute for Particle Physics Phenomenology,  
Durham University

$$\zeta(z) = \sum_{n=1}^{\infty} \frac{1}{n^z}$$

09:00 – 09:30

**Registration**

09:30 – 09:35

**Welcome**

Prof. Alexander Lenz

09:35 – 10:10

**What is the world made of?**

An introduction to Particle Physics

Asli Abdullahi & Maria Laura Piscopo

10:10 – 10:45

**How can we “see” elementary particles?**

An introduction to the Large Hadron Collider

Dr. Gurpreet Singh Chahal & Dr. Aidin Masouminia

11:00 – 11:45

**The W, Z and Higgs bosons at CMS**

How do we discover new particles?

Kevin Kwok & Ryan Moodie

12:45 – 14:45

**Hands-on activity**

Working with the existing LHC data

15:00 – 16:00

**Sharing your findings**

Videoconference with four other institutions

16:00 – 16:10

**Farewell**

The Organising Committee:

Alexander Lenz, Aidin Masouminia, Maria Laura Piscopo,  
Gurpreet Singh Chahal, Christos Vlahos



SCAN ME



Durham  
University



hands on particle physics