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– The ATLAS Muon Spectrometer –

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[Exceptional location] 4/S-030 | 16h30

[Indico webpage](#)

Thanks to their long lifetime and minimal energy loss when passing through matter, muons are among the few particles in the standard model that can be directly detected in high-energy physics experiments. In my lecture, I will briefly recap the interaction of muons with matter and the goals of muon detection at a hadron collider experiment. I will then explain the concept of the ATLAS muon spectrometer and introduce the chamber technologies employed. I will conclude my presentation with an outlook on the upgraded muon spectrometer for the HL-LHC.