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## **Jets and parton shower development in heavy-ion collisions(20'+10')**

*Tuesday 23 July 2019 11:30 (30 minutes)*

Jets are now routinely used to probe the quark-gluon plasma (QGP) created in high-energy heavy-ion collisions at the LHC. This talk is meant to report on recent work towards developing a complete picture of how parton cascades and jets form in the QGP in QCD, including both standard parton shower and medium-induced emissions. The talk will first introduce a picture valid in the leading logarithmic accuracy and then discuss its phenomenological implications, focusing mainly on the  $z_g$  observable.

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