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Theoretical perspectives on the heavy ion LHC program

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The strong modification of high transverse momentum particle production in heavy ion collisions ('jet quenching') was one of the major discoveries at RHIC and is currently studied in much greater detail at the LHC. While jet quenching gives access to a variety of phenomena in QCD, the wider kinematic reach of the LHC and the possibility to reconstruct jets in heavy ion collisions challenge theoretical calculations. This talk will be concerned with the interpretation of LHC jet quenching data and recent developments of the theoretical tools.

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