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New Theoretical Developments in Medium Modifications of Jets

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The LHC offers unprecedented opportunities to study the jets produced in heavy ion collisions. The release of the first LHC heavy ion data on jets has been accompanied by a surge of related theoretical activity. These recent efforts have focused on the identification and development of necessary ingredients to promote and complement the existing theoretical formulations, originally developed for the study of single parton energy loss in the presence of a medium, to the case of fully reconstructed jets. I will review recent efforts including those to account for the colour flow and the role of colour coherence effects in the parton cascade, and the relevance of transport of soft jet components away from the jet. Whenever appropriate I will discuss the phenomenological implications of these novel effects and discuss their relevance to the understanding of the available data.

Auteur principal: Dr MILHANO, Jose Guilherme (CENTRA-IST, Lisbon & CERN PH-TH)

Orateur: Dr MILHANO, Jose Guilherme (CENTRA-IST, Lisbon & CERN PH-TH)

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