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## Quenching of Hadron Spectra in Heavy Ion Collisions at the LHC

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The  $p_{\perp}$  dependence of the nuclear modification factor  $R_{AA}$  measured in XeXe and PbPb collisions at the LHC exhibits a universal shape, which can be very well reproduced in a simple energy loss model based on the BDMPS medium-induced gluon spectrum. The scaling is observed for various hadron species  $(h^{\pm}, D, J/\psi)$  in different centrality classes and at all colliding energies,  $\sqrt{s} = 2.76, 5.02, 5.44$  TeV. When comparing different systems, it is found that the average energy loss properly scaled by the particle multiplicity and the transverse area of quark-gluon plasma has a simple dependence on the path length traversed by the fragmenting partons. Based on this model, a data-driven procedure is suggested, which allows for the determination of the first and second moments of the quenching weight without any prior knowledge of the latter.

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