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## The medium modification of jet fragmentation function and baryon-to-meson ratio in jet

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We use CoLBT-hydro model for simultaneous event-by-event simulations of jet propagation and hydrodynamics evolution of the bulk medium including jet-induced medium excitation. The final reconstructed jet in heavy-ion collision include not only hadrons from medium response for the deposited energy and momentum of hard partons, but also hadrons from the fragmentation and recombination process of in-medium hard partons. We carry out the study with CoLBT-hydro of medium modification of jet fragmentation function and baryon-to-meson ratio in jet. CoLBT-hydro describes both CMS and ALICE data well on the suppression of leading hadrons due to parton energy loss and an enhancement of soft hadrons due to jet-induced medium excitation in different collisional centralities. And it also shows the medium modification of particle ratio ( $p/\pi$ ,  $\Lambda/k^0_s$ ) in the reconstructed jet in the large  $p_T$  range.

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