



ID de Contribution: 307

Type: Poster

Enhancement of baryon-to-meson ratios around jets as a signature of medium response

mardi 4 juin 2024 18:34 (1 minute)

We present a unique signal of jet-induced medium response: the enhancement of baryon-to-meson ratios for associated particles at intermediate transverse momentum around the triggered quenched jets. Since the lost energy from the jets can diffuse to large angles, we expect that such baryon-to-meson-ratio enhancement is stronger for larger distance with respect to the jet axis. Our prediction can be tested by future experiments.

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Classification de Session: Posters

Classification de thématique: Light-flavours and Strangeness