

Reconstruction of Weak Decays using Machine Learning with HADES

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In this contribution we present weak decay topology recognition utilizing an artificial Neural Network. This approach significantly improved the precision of the analysis of Λ hyperons and K_0^* mesons and enabled us to measure more rare probes like the Ξ hyperon or Hypernuclei for the first time in heavy-ion collisions with HADES. We highlight the choice of input parameters as well as the applied training procedure and finally present the obtained results.

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