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Particle identification for a future EIC detector

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Particle identification (PID) is an essential capability for a future EIC detector, required for flavor tagging in SIDIS, background suppression for open charm, and other key parts of the physics program. The necessity of incorporating a wide range of PID systems for both hadron and lepton identification, with significant variations in requirements at different rapidities, also gives detectors intended for the EIC a unique character. Not surprisingly, PID thus constitutes an important of the Generic Detector R&D for an Electron Ion Collider program. This talk will give an overview of the ongoing R&D efforts, focusing on Cherenkov systems for hadron ID, and suggest opportunities for involvement and future collaboration.

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