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Dual-readout Calorimeter for the EIC

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The Electron Ion Collider(EIC) is considered to construct at Brookhaven National Laboratory. A Dual-readout Calorimeter(DRC) is proposed as the forward calorimeter of the ECCE experiment at the EIC. The DRC consisting of two optical fibers, Cherenkov and Scintillating fibers, of different hadronic and electromagnetic responses allows us to measure electromagnetic and hadronic showers simultaneously with a high resolution. Simulation study is ongoing to implement geometry and evaluate the performance of single particle and jet energy measurements. In this poster, details on the simulation study of the DRC as a forward calorimeter for the EIC will be discussed.

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