

Calorimetry with the ePIC Project

Tuesday, 31 October 2023 18:00 (30 minutes)

This talk will cover some of the electromagnetic calorimetry plans for the ePIC detector with a concentration on the design of the central barrel calorimeter based on the current GlueX BCAL at JLab. The requirements (as specified in the ePIC Project) include energy resolution of $10\%/\sqrt{E} \oplus (2-3)\%$ and electron-pion suppression great than 10^3 , which will be comfortably met by a novel imaging calorimeter that combines AstroPix silicon sensors for position resolution and lead-scintillating-fiber matrix for energy resolution. Specific Canadian contributions to the EIC effort will also be presented.

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