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Fiducialization for the CBETA Magnets

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The Cornell-BNL Energy Recovery Linac (ERL) Test Accelerator (CBETA) is a prototype for the future Electron Ion Collider (EIC) to prove the principle of accelerating electrons with energy recovery. There will be more than 200 magnets to be installed. Currently the major survey work is the fiducialization of magnets. The fiducials, measurement method, instrument and frame definition will be presented. Measurement plan (MP) is used to automate the data collecting and analyzing and it improves efficiency significantly.

Primary author: KE, Ming (BNL)

Presenter: KE, Ming (BNL)

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