

Abstract Submitted  
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**Charged Track Reconstruction for GlueX at Jefferson Lab** SIMON TAYLOR, Jefferson Lab, GLUEX COLLABORATION — The GlueX detector currently under construction at Jefferson Lab is a large acceptance device designed to facilitate the search for hybrid mesons. In order to accomplish this program, both photons and charged particles need to be reconstructed with high efficiency. Forward-going charged particles are detected in the Forward Drift Chambers while tracks exiting the target at angles greater than  $\sim 20$  degrees are detected in the Central Drift Chamber. Hits in both sets of detectors are associated into track segments that are linked together to form track candidates. These candidates are fit using the Kalman Filter formalism. The track reconstruction sequence from track finding through track fitting will be described. Single-track efficiencies and resolutions will be presented. Results for simulated events containing multiple charged particles relevant for the GlueX physics program will also be presented.

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