

Abstract Submitted
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Testing and Analyzing the BONuS12 RTPC at Jefferson Lab

TRAVON WILLIS, Virginia Union University — The BONuS12 (Barely Off-shell Neutron Structure) group intends to measure the fundamental structure of the neutron in the valence quark region. In order to accomplish this, electron beam would scatter off a deuteron target. To ensure scattering is off the neutron, slow, backward moving spectator protons would be tagged with a Radial Time Projection Chamber (RTPC). A gas panel has been built to distribute and control gas flow through the RTPC as well as a Drift Monitoring System (DMS). An RTPC is currently being tested using HeCO₂ and ArCO₂ under high voltage, looking for tracks and signals with cosmic data. This talk will focus on this testing and plans.

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