

The Neutron Structure Function from BoNuS

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For the CLAS Collaboration

The BoNuS experiment at Jefferson Lab's Hall B measured the structure of the quasi-free neutron via electron scattering off a deuteron target. The scattered electrons were detected by the CLAS detector, which was augmented by a novel radial time projection chamber featuring gas electron multipliers to detect the slowly recoiling spectator protons. Selecting very low momentum recoiling spectator protons at very backward scattering angles ensured a very loosely bound deuteron in the initial state. Data were taken successfully in the fall of 2005.