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Measuring Neutron Polarization using the CLAS start counter at Jefferson Lab

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Jefferson Lab, Virginia, USA, is a world leading international facility in nuclear and particle physics. JLab houses a superconducting RF particle accelerator known as CEBAF (Continuous Electron Beam Accelerator Facility) and had an almost hermetic detector known as CLAS (CEBAF large acceptance spectrometer). CLAS was composed of many detection systems, including the start counter, which is a set of scintillators used to determine the time at when an event originated within the target in photo induced reactions. Presented in this poster are studies in which we investigate the utilization of the start counter as a neutron polarimeter. This study will pave the way for further analyses where polarization determinations can provide an insight to underlying physics, allowing us to shed light in hexaquark states.

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Session Classification: Poster Session