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The Spin Correlation Parameters in Electron-Proton Inclusive Scattering in the Delta-Excitation Region[1] OCTAVIAN FILOTI, UNH, JOHN CALARCO, UNH, FOR THE BLAST COLLABORATION — We present a preliminary report on the measurement of spin correlation parameters in inclusive scattering of longitudinally polarized electrons from nuclear-polarized hydrogen using the BLAST detector at MIT-Bates Linear Accelerator Center. The Bates Large Acceptance Spectrometer Toroid (BLAST) is a detector designed to study in a comprehensive and precise way the spin-dependent electromagnetic response in one and few-body systems over a large kinematic range using the MIT-Bates South Hall Ring. Currently it is used to measure spin-dependent scattering from the elastic to the nucleon resonance region for hydrogen and deuterium using the Bates longitudinally polarized electron beam at beam energies up to 850 MeV and polarized internal gas targets of hydrogen and deuterium. The data provide a stringent test of pion electroproduction models that are sensitive to the scalar and electric quadrupole amplitudes in the Delta-region. This work is supported by DOE grants 181021 (UNH), and DE-FC02-94ER40818 (MIT-Bates).

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