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Spin Physics Program in Jefferson Lab's Hall C

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The nucleon spin structure has been studied at Jefferson Lab's Hall C in experiments RSS (E01-006) and SANE (E07-003), which measured double spin asymmetries using the U. of Virginia solid polarized target and CE-BAF's 6 GeV polarized electrons. The proton longitudinal spin structure g_1 and transverse structure g_2 have been investigated at kinematics extending from the elastic point to DIS, for four-momenta squared ranging from 0.8 to 5 GeV^2 . The neutron structures have been measured in the region of the nucleon resonances at 1.3 GeV^2 on a deuteron target. Results of both experiments will be highlighted. A brief survey of approved experiments for the 12 GeV program will also be presented.

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