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Analyzing power in quasi-elastic proton-proton scattering at 500 and 650 MeV/nucleon

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Analyzing power of the elastic proton-proton scattering was obtained at the Nuclotron Internal Target Station using a polarized deuteron beam and a polyethylene target. The asymmetry on hydrogen was obtained by the subtraction of the carbon background. The final selection of useful events was performed using time and amplitude information from scintillation counters. The obtained analyzing power values were compared with the predictions of the partial-wave analysis SAID at the beam energies of 500 and 650 MeV/nucleon.

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