

# DEUTERON BEAM VECTOR POLARIZATION MEASUREMENT USING PROTON-PROTON QUASIELASTIC SCATTERING AT THE ENERGIES FROM 200 TO 650 MEV/NUCLEON

*Friday, 15 July 2022 12:50 (20 minutes)*

The deuteron beam vector polarization was obtained at the Nuclotron Internal Target Station using quasielastic proton-proton scattering on the polyethylene target. The selection of useful events was performed using the time and amplitude information from scintillation counters. The asymmetry on hydrogen was obtained by the subtraction of the carbon background. The values of vector polarization were obtained at the beam energies of 200, 500, 550, and 650 MeV/nucleon. The obtained values are compared with the data obtained in the deuteron-proton elastic scattering at the beam energy of 135 MeV/nucleon.

## The speaker is a student or young scientist

Yes

## Section

1. Experimental and theoretical studies of nuclear reactions

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**Session Classification:** Experimental and theoretical studies of nuclear reactions