

# MEASUREMENT OF THE TENSOR ANALYSING POWER COMPONENTS OF THE $\pi^-$ PHOTOPRODUCTION ON DEUTERONS AT LARGE PROTON MOMENTA

Gauzshtein V.V.<sup>1</sup>, Dusaev R.R.<sup>1</sup>, Loginov A.Yu.<sup>1</sup>, Nikolenko D.M.<sup>2</sup>,  
Rachek I.A.<sup>2</sup>, Sadykov R.Sh.<sup>2</sup>, Sidorov A.A.<sup>1</sup>, Stibunov V.N.<sup>1</sup>, Toporkov D.K.<sup>2</sup>,  
Shestakov Yu.V.<sup>2</sup>, Zevakov S.A.<sup>2</sup>

<sup>1</sup>*Tomsk Polytechnic University, Russia;*

<sup>2</sup>*Budker Institute of Nuclear Physics, Novosibirsk, Russia*

E-mail: geniy\_arm@mail.ru

The simultaneous measurements of three components of tensor analyzing power results are shown for exclusive negative pion photoproduction reaction, provided at the energy range 300–900 MeV. The experiment was performed using internal polarized deuterium target at the VEPP-3 electron storage ring with coincidence proton registration.

From comparisons of obtained dependencies with theoretical predictions made in spectator model and in the impulse approximation with FSI one can consider that for pion photoproduction at large proton momenta, it is required to take into account in addition to  $\pi N$  and  $NN$  interactions, more complicated mechanisms of reaction, in particular,  $\Delta N$  interaction at the intermediate states.