

Search for resonant structure in the pion production reaction on the Nuclotron internal beam

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We have searched for an enhancement in the excitation function of the yield of pions in the pion production reaction by protons and deuterons at bombarding energies near 350 MeV/nucleon. The measurements was carried out on the JINR Nuclotron internal beam and target in March and June 2004 Nuclotron Runs for Ag, Cu, Al and C targets.

- [1] A.N. Livanov, Yu.S. Anisimov, S.A. Afanasiev, R. Basta, S. Gmuca, P. Hedbavny, V.A. Krasnov, A.I. Malakhov, E.A. Matyushevsky, J. Kliman, V. Matoushek, M. Morkhac, A.V. Shabunov, A.Yu. Starikov, I. Tsakov, I. Turzo. Proceedings of the 7th Internal Workshop on Relativistic Nuclear Physics, 25-30 August 2003, Stara Lesna, Slovak Republic. P.117.
- [2] A.N. Livanov, V. G. Gorlichev, L.V. Karnushina, E.V. Karpechev, V.A. Kizka, V.A. Krasnov, Kurepin, V.A. Pheshenko. Preprint INR - 1154/2005, Istitute for Nuclear Research, Moscow, Russia.

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