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Study of exclusive processes at NICA

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We propose to investigate at NICA exclusive vector mesons production, essentially J/Ψ production which is dominated by a gluon GPDs. These reactions is similar to the corresponding process in lepton-proton scattering and determined by GPDs.

Investigation of the exclusive D-Y production in the proton-proton reaction determined by two GPDs effects is in progress incollaboration with O. Teryaev and P. Kroll.

We find that $d\sigma/(dQ^2 dt_1 dt_2) \sim 20 - 30 \text{pb}/\text{GeV}^6$ at small t_1, t_2 and $Q^2 = 5 \text{GeV}^2$ at NICA energies. This reaction can be studied at NICA and give an additional excess to GPDs.

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