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Exclusive photoproduction of a gamma rho pair with a large invariant mass

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Exclusive photoproduction of a gamma rho pair in the kinematics where the pair has a large invariant mass and the final nucleon has a small transverse momentum is described in the collinear factorization framework. The scattering amplitude is calculated at leading order in α_S and the differential cross sections for the process where the rho-meson is either longitudinally or transversely polarized are estimated in the kinematics of the JLab experiments.

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