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Experimental tests of QCD scaling laws at large momentum transfer in exclusive light-meson photoproduction

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We evaluated CLAS Collaboration measurements for the 90-deg meson photoproduction off the nucleon using a tagged photon beam spanning the energy interval $s = 3 - 11 \text{ GeV}^2$. The results are compared with the “quark counting rules” predictions. The role of the Sudakov form-factor and Vector-Meson Dominance model is considered.

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