Many manifestations of nonperturbative QCD



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## Relativistic approaches for the $\gamma^*N \to N^*$ transition form factors at intermediate and large momentum transfer

We present estimates of transition form factors for some nucleon resonances  $N^*$ , based on two independent frameworks. We start with the presentations of results based on light-front holography, for the nucleon and the Roper. Later on, we discuss some results based on a covariant quark model for several resonances  $N^*$ . In general the estimates compare well with data for intermediate and large square momentum transfer ( $Q^2 > 2 \text{ GeV}^2$ ).

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