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Relations between the QCD sum rules with baryon distribution amplitudes

Recently we have proposed unitary symmetry relations between the Light-Cone QCD sum rules with meson and photon distribution amplitudes (DA's). But they are not suitable if one deals with the baryon DA's because in this case interpolating currents have different nature: one of them is baryon current while the other one is either a meson or a photon current. As the resulting formules with baryon DA's are even more complicated then for the sum rules with the meson or photon DA's it would be of interest to search unitary symmetry relations between various sum rules.

We have succeded in deriving the relations between the LC QCD sum rules with the baryon DA's for the electromagnetic form factors of the Λ and the corresponding transition $\Sigma^0\Lambda$ quantities. We have proved their validity in the NRQM and also proved that these SR's should be identical (up to a factor).

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