

# Magnetic Moments of Decuplet Baryons in Light Cone QCD

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## Abstract

The calculation of the magnetic moments of decuplet baryons within the framework of light cone QCD sum rules taking into account the  $SU(3)$  flavor symmetry breaking effects is presented. It is obtained that magnetic moments of the neutral  $\Sigma^{*0}$  and  $\Xi^{*0}$  baryons are mainly determined by the  $SU(3)$  breaking terms. A comparison of our results on the magnetic moments of the decuplet baryons with the predictions of other approaches is presented.