

Meson-Baryon Couplings, SU(3) Symmetry and QCD Sum rules

Tuesday 18 August 2009 14:00 (1 minute)

Please give a brief summary of your poster

SU(3) symmetry allows one to relate various meson-baryon coupling to each other. Using this symmetry, octet-baryon octet-meson couplings can all be expressed in terms of two parameters only. But in nature SU(3) symmetry is broken due to the large strange quark mass. In this work, using light cone QCD sum rules, we show that even if one considers SU(3) violation, meson baryon coupling constants can be written in terms of a few functions of the quark properties.

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Session Classification: Poster Session

Track Classification: Poster Session