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Light-Cone Distribution Amplitudes of Doubly-Heavy Baryons

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Doubly-heavy baryons, whose dynamics is determined by a light quark sutuated in a color field of a static pair of heavy quarks, are investigated. Non-local interpolation currents are introduced and corresponding matrix elements between the baryon and vacuum state are expressed in terms of light-cone distribution amplitudes. Model functions for baryon distribution amplitudes are suggested and their scale dependence is studied in the pertubative QCD framework. The similarity between the heavy meson and doubly-heavy baryon disribution amplitudes is discussed.

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