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Renormalization of the baryon axial vector current in large-N_c

The baryon axialvector current is computed at one-loop order in heavy baryon chiral perturbation theory in the large-N_c limit, where N_c is the number of colors. Loop graphs with octet and decuplet intermediate states cancel to various orders in N_c as a consequence of the large-N_c spin-flavor symmetry of QCD baryons. We present a preliminary study of the convergence of the chiral expansion with 1/N_c corrections in the case of g_A = N_c = 3.

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