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Baryon axial coupling constants and quark momentum fractions with $N_f=2+1$ dynamical fermions

Monday, 14 June 2010 17:00 (20 minutes)

In this talk we will report on recent results of the QCDSF Collaboration on investigations of baryon structure using configurations generated with $N_f=2+1$ dynamical flavours of $O(a)$ -improved Wilson fermions. With the strange quark mass as an additional dynamical degree of freedom in our simulations we avoid the need for a partially quenched approximation when investigating the properties of particles containing a strange quark, e.g. the hyperons. In particular, we will focus on the nucleon and hyperon axial coupling constants and quark momentum fractions.

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talk

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