Lattice2010



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## The spectrum of static-light baryons in twisted mass lattice QCD

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We compute the static-light baryon spectrum with  $N_f = 2$  flavors of sea quarks using Wilson twisted mass lattice QCD. As valence quarks we consider unitary light quarks (with a corresponding pion mass of around 340 MeV) as well as partially quenched light quarks, which have the mass of the physical strange quark. We extract masses of states with isospin I = 0, I = 1/2 and I = 1, with light cloud angular momentum j = 0 and j = 1, and with parity P = + and P = -. We present a preliminary extrapolation in the light u/d and in the heavy quark mass to the physical point and compare with available experimental results.

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talk

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