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From strange to charmed baryons using $N_f=2$ twisted mass QCD.

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We consider the mass spectrum for strange and charmed baryons in the partially quenched approach using the $N_f=2$ twisted mass configurations. The strange and the charmed octet and decuplet are computed, as well as some strange-charmed baryons.

Several issues are investigated : the tuning of the strange and charm quark mass; the study of lattice artifacts using three values of the lattice spacing as small as 0.05 fm ; the dependence of baryon masses on the heavy quark mass.

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talk

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