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QCD flavour-blindness on the lattice and in the real world

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Abstract content

The QCD interaction is flavour-blind. Neglecting electromagnetic and weak interactions, the only difference between flavours is caused by the different quark masses. We explain how flavour-blindness constrains hadron masses and matrix elements after flavour $SU(3)$ is broken by the mass difference between the strange and light quarks. We use this knowledge to help us extrapolate 2+1 flavour lattice data to the physical point. Flavour blindness is particularly useful if we approach the physical point along a path with the sum of the quark masses held constant.

Summary

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