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The b Quark Mass from Lattice Nonrelativistic QCD

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We present a calculation of the b quark mass from lattice NonRelativistic QCD (NRQCD). The b quark mass is extracted using the two-loop NRQCD heavy quark energy shift and mass renormalisation, previously calculated to only one-loop. These parameters are obtained with a hybrid technique: gluonic contributions are extrapolated from a quenched high-beta simulation and the fermionic contributions calculated using automated lattice perturbation theory.

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Poster

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