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Precision determination of b-quark mass and pseudoscalar B-decay constants

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We will present precise determinations for the b-quark mass, the quark mass ratios m_b/m_c and m_b/m_s as well as the leptonic B-decay constants employing lattice QCD methods. We use the gauge configurations with four dynamical quark flavors, up/down, strange and charm, generated by the European Twisted Mass Collaboration. Our results, obtained at three values of the lattice spacing, are extrapolated to the physical pion mass and to the continuum limit.

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