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High precision determination of w_0

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To perform high precision calculations in lattice QCD for observables of physical interest, it is important to determine the lattice spacing with high accuracy. A convenient choice for scale setting is the observable w_0 which is based on the Wilson flow. However the value of w_0 is not determined experimentally and therefore the value of w_0 in physical units has to be be computed by lattice simulations before it can be used to set the scale in subsequent
calculations. We present a lattice calculation aiming to determine w_0 with high precision. It takes QED effects beyond quenched approximations into account.

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