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# Determination of the SU(3) Yang-Mills running coupling

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The decoupling strategy allows to obtain the value of the strong coupling in QCD from the running in pure gauge. Here we present our strategy to determine the running in the SU(3) Yang-Mills theory. We use a finite volume scheme with twisted boundary conditions and a step-scaling approach based on a gradient flow coupling. We show preliminary results for the continuum extrapolation of the step- scaling function. Compared with other finite volume approaches, we expect a reduced statistical error due to the translational invariance of the boundary conditions, and a smooth approach to the continuum limit without linear cutoff effects, thanks to an improved setup with good scaling properties.

## Parallel Session (for talks only)

Standard Model parameters

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