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## Computation of the latent heat of the deconfinement phase transition of SU(3) Yang-Mills theory

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The latent heat of the first-order deconfinement phase transition in SU(3) Yang-Mills theory can be determined from the discontinuity in the entropy density  $s(T_c)$  at the critical temperature  $T_c$ . Using shifted boundary conditions, the entropy density becomes a primary thermal observable that can be computed from the expectation value of the space-time components  $T_{0k}$  of the renormalized energy-momentum tensor. This approach provides a convenient framework for such calculation. We present an accurate determination of the latent heat using Monte Carlo simulations on systems with large spatial size  $LT_c \simeq 30$  and at four different lattice spacings.

**Primary authors:** GIUSTI, Leonardo (University of Milano-Bicocca); HIRASAWA, Mitsuaki (University of Milano-Bicocca); PEPE, Michele (INFN - Sez. Milano Bicocca); VIRZÌ, Luca (Università degli Studi di Milano - Bicocca, Istituto Nazionale di Fisica Nucleare (INFN, MiB))

**Presenter:** VIRZÌ, Luca (Università degli Studi di Milano - Bicocca, Istituto Nazionale di Fisica Nucleare (INFN, MiB))

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