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The confined-deconfined surface tension in SU(N) gauge theories at large N

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We present results from an investigation of the N-dependency of the confined-deconfined interface tension in pure SU(N) gauge theories at large N. By measuring the transverse fluctuations of the surface on large lattices, we determine the surface tension up to N=16 and observe unambiguously that it scales as N^2 . Our results show that in the continuum limit the surface tension can be described by $\sigma/T_c^3=-0.16(4)+0.0173(11)N^2(N\geq 4)$.

Primary authors: SALAMI, Ahmed; RUMMUKAINEN, Kari (University of Helsinki); RINDLISBACHER,

Tobias (University of Bern)

Presenter: SALAMI, Ahmed

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