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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 $\sigma/T_c^3 = -0.16(4) + 0.0173(11)N^2 (N \ge 4)$.

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