Cutoff effects in the O(N) sigma model at large N.

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Abstract: In the O(3) nonlinear sigma model in two dimensions deviations from the expected a^2 scaling close to the continuum limit have been observed for some time. We here discuss numerical results for other *N*-values as well as semi-analytical information on the leading and next-to-leading large *N* behavior of the step scaling function associated with the finite volume massgap.