Société Française de Physique

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Winding mode calculation of the effective potential in extra-dimensional theories

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We propose a new method for calculating the effective potential in extra-dimensional theories, based on a re-summation of the winding modes. This formalism is of particular interest for gauge-Higgs unification models for which the potential is entirely radiatively generated, but the method is of more general use. The winding modes formalism allows for a clean renormalisation procedure, a fast convergence of the sum on the modes, and also allows resumming of the result to all orders, guaranteeing to preserve the symmetries of the theory. We consider in detail the method and show a few illustrative examples of the calculations which are of interest for unification and for gauge-Higgs models.

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