

O(N) sigma models for a non-standard Higgs

Tuesday, 26 September 2017 19:00 (1 minute)

We continue previous studies of O(N) sigma models whose symmetry suffers of a spontaneous breaking down to O(N-1). We also consider soft explicit breaking terms, first, through an ad hoc variation of the potential and, in a second step, via one-loop corrections to the effective potential. These models are of a high interest for beyond Standard Model extensions (the minimally composite Higgs models, with $N \geq 5$) where, in addition to the spontaneous chiral symmetry breaking in the scalar sector, the Higgs arises as an additional (pseudo) Goldstone boson.

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Session Classification: Poster session

Track Classification: QCD and hadron structure