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Accidentally light scalar fields from large representations

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In this talk I will present some models of weakly coupled scalar fields which are massless at the tree level, despite the fact that the scalar potential includes all renormalizable operators compatible with the symmetries, and that it exhibits no accidentally enhanced symmetries associated with pseudo-Nambu-Goldstone bosons (pNGBs). These accidentally light fields are close cousins of both pNGBs and of pseudomoduli in spontaneously broken supersymmetry. They could have applications in solving the little hierarchy problem, or in particle cosmology.

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