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Electroweak Symmetry Breaking: By Dynamically Generated ...
Electroweak symmetry breaking is assumed to be caused by dynamically generated masses of typical fermions, i.e., of quarks and leptons, which in turn assumes a new dynamics between quarks and leptons. Primarily it is designed to generate fermion masses and electroweak symmetry breaking is an automatic consequence.

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Theories of dynamical electroweak symmetry breaking can be classified by the nature of the compositesingletstatetobeassociatedwiththeH0andthecorrespondingdimensionalscalesf, theanalogofthepiondecay-constantinQCD,and Λ,thescaleoftheunderlyingstrongdynamics.1. Of particular importance is the ratiov/f, wherev2≈ 1/(√ 2G.

93. Dynamical Electroweak Symmetry Breaking
Electroweak Symmetry Breaking. The Table of Contents for the book is as follows: Dynamical Symmetry Breaking and the Top Quark Mass in the Minimal Supersymmetric Standard Model. A Paradox in the Asymptotic Scaling of Dynamically Generated Fermion Masses.

Electroweak Symmetry Breaking ¦ Electroweak Symmetry Breaking
In theories of dynamical electroweak symmetry breaking, the electroweak interactions are broken to electromagnetism by the vacuum expectation value of a fermion bilinear. These theories may thereby avoid the introduction of fundamental scalar particles, of which we have no examples in nature.

1– DYNAMICAL ELECTROWEAK SYMMETRY BREAKING
The earliest models [1,2] of dynamical electroweak symme-try breaking [3] include a new non-abelian gauge theory (\tech-nicolor") and additional massless fermions (\technifermions") which feel this new force. The global chiral symmetry of the fermions is spontaneously broken by the formation of a technifermion condensate, just as the approximate chiral

{1{ DYNAMICAL ELECTROWEAK SYMMETRY BREAKING
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bosons, and the photon, are produced through the spontaneous symmetry breaking of the electroweak symmetry SU(2) × U(1) Y to U(1) em, effected by the Higgs mechanism (see also Higgs boson), an elaborate quantum field theoretic phenomenon that "spontaneously" alters the realization of the symmetry and rearranges degrees of freedom.

Electroweak interaction - Wikipedia
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Electroweak Symmetry Breaking: By Dynamically Generated ...
Dynamical Electroweak Symmetry Breaking by a Neutrino Condensate Stefan Antusch1,J ¨ orn Kersten2, Manfred Lindner3 Physik-Department T30, Technische Universit ¨ at M ¨ unchen ... that the EW symmetry is broken dynamically by a neutrino condensate. This would normally lead to neutrino masses of the order of the symmetry breaking scale, i.e. O ...

Dynamical Electroweak Symmetry Breaking by a Neutrino ...
Recently Dobrescu and Hill [7] have proposed a model in which a dynamically generated mass for the top quark does generate the full electroweak symmetry breaking scale but the correct top mass is obtained as a result of a see-saw mechanism with a heavy fermion sector.

Flavour Universal Dynamical Electroweak Symmetry Breaking
We say that the electroweak gauge symmetry is broken, by dynamics or circumstances, to the gauge symmetry of electromagnetism. The electroweak theory and QCD join to form the Standard Model of particle physics. Augmented to incorporate neutrino masses and lepton mixing, the Standard Model describes a vast array of experimental information.

Electroweak Symmetry Breaking in Historical Perspective ...
In the conventional spontaneous gauge symmetry breaking, there exists an unstable Higgs particle in the theory, which drives the vacuum to a symmetry-broken phase (see e.g. Electroweak interaction). In dynamical gauge symmetry breaking, however, no unstable Higgs particle operates in the theory, but the bound states of the system itself provide the unstable fields that render the phase transition.

Spontaneous symmetry breaking - Wikipedia
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In an appendix, we classify UV completions that could lead to such a setup, considering also the option of generating all scales dynamically.We demonstrate that from a low-energy perspective a viable breaking of the electroweak symmetry, as present in nature, can be achieved without the (negative sign) μ 2 mass term in the Higgs potential, thereby avoiding completely the appearance of relevant operators, featuring coefficients with a positive mass dimension, in the theory.

Electroweak Symmetry Breaking without the μ^2 Term - CORE
Dynamical symmetry breaking provides a possible solution to the electroweak hierarchy problem. It requires new strong interactions that are effective at some high-energy scale. If there is no light Higgs boson, this scale is constrained to be in the TeV range, and signals of the new interactions can be observed, directly or indirectly, in collider experiments.