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Resonances in the electroweak chiral lagrangian

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We study strongly coupled models of electroweak symmetry breaking with a light Higgs boson. We use a resonance effective Lagrangian with bosonic massive resonances together with the Standard Model degrees of freedom, including a light Higgs. We consider constraints from the phenomenology and from the assumed high-energy behavior of the underlying theory. This resonance effective theory can be used to estimate the low-energy constants (LECs) of the Electroweak Effective Theory (Electroweak Chiral Lagrangian) in terms of resonance parameters and to make predictions of low-energy observables like, for instance, the oblique parameters. Note that the theoretical framework is completely analogous to the Resonance Chiral Theory description of QCD at GeV energies.

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