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Resonances in composite Higgs models

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We study the scattering of longitudinally polarized W bosons in extensions of the Standard Model where anomalous Higgs couplings to gauge sector and higher-order operators emerge. These couplings should be thought of as the low-energy remnants of some new dynamics involving the electroweak symmetry breaking sector. By imposing unitarity and causality constraints on the WW scattering amplitudes, we find relevant restrictions on the possible values of the new couplings and predict the presence of new dynamical resonances above 300 GeV. We investigate the properties of these new resonances and their experimental detectability.

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