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Hunting for Minimal Walking Technicolor using Z' /Z" searches at the LHC

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Despite the successes of the Standard Model, there are many issues and open questions that must be answered with physics Beyond the SM. For 4 decades, theories of strong dynamics, in particular Technicolor theory, have been posed as alternatives to spontaneous electroweak symmetry breaking. Today, Walking Technicolor theory offers both a solution to the hierarchy problem, a Higgs boson-like particle corresponding to observation, and a rich phenomenology which we can explore within the current energy capabilities of the LHC. We explore signals of new neutral resonances in WTC at the LHC, to give the strongest constraints on WTC to date, and possibly to determine the future of Technicolor theory and strong dynamics.

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