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Technicolor and conformal window on the lattice

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In phenomeologically acceptable technicolor theories the gauge coupling evolves very slowly, "walks", over a specific range of energies. Thus, the beta-function of the theory has a near-zero at a non-zero value of the coupling constant, where the theory becomes almost conformal. Because the almost-fixed point is at relatively strong coupling, non-perturbative lattice simulations are required for reliable investigations of these theories. In recent years these theories have attracted a lot of interest from the lattice community. In this talk I review the progress, problems and prospects in studies of some candidate theories with an fixed point or almostfixed point, concentrating on the theory with SU(2) gauge fields and two flavours of adjoint representation fermions.

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