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Beyond the Standard Model: lattice calculations at the energy frontier

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The discovery of the Higgs boson in 2012 completed the Standard Model but many puzzles remain. Composite systems where the Higgs boson is a bound state of some new fermion species are viable models to describe beyond-SM phenomenology, but are most likely strongly coupled and require non-perturbative investigations. In this talk I will review recent lattice calculations that investigate general properties of near-conformal systems and might describe the Higgs boson.

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