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Abstract for an Invited Paper for the APR16 Meeting of the American Physical Society

Neutral Naturalness

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The LHC has found the Higgs, but no conclusive evidence for other new physics. In the absence of new particles up to high masses the Higgs potential must be tuned, or un-natural. I will describe ways in which the new particles which render the Higgs potential natural can be neutral under strong interactions and thus produced at lower rates. Despite being more elusive these models lead to new LHC signals which can be tested at the LHC.