

# Properties of the Weinberg 3HDM potential

*Saturday, 4 May 2024 11:40 (20 minutes)*

The Weinberg 3HDM potential may lead to spontaneous CP violation. The terms thus inducing CP violation are constrained by the measured properties of the discovered scalar at 125 GeV. In a wide range of parameter space, the potential leads to one or two light neutral states (below 125 GeV) that have a considerable admixture of CP-odd fields. The potential can accommodate a light state at 95 GeV, as suggested by recent data.

**Primary author:** OSLAND, Per (University of Bergen (NO))

**Presenter:** OSLAND, Per (University of Bergen (NO))

**Session Classification:** Talks