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Effects of higher order operators on the Standard Model Higgs sector

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We study generic effects of Beyond the Standard Model physics on the Standard Model Higgs sector. Specifically we investigate the effects of higher order operators in the Higgs potential in the Higgs-Yukawa and gauge-Higgs sectors separately. Our main result is the dependence of the critical endpoint of the Electroweak finite temperature phase transition on the scale of new physics.

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