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Higgs bosons in SM extensions: temperature effective loop corrections

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The development of the catastrophe theory methods is proposed for the effective Higgs type potentials stability conditions. The role of temperature effective loop corrections and the temperature evolution of phase transitions in some advanced two-doublet models are considered.

Author: Dr DOLGOPOLOV, Mikhail (Samara State University)Presenter: Dr DOLGOPOLOV, Mikhail (Samara State University)Session Classification: CALC2015 Workshop