

# Is it possible to estimate the Higgs Mass from the CMB Power Spectrum?

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The possibility to identify two peaks in the Cosmic Microwave Background power spectrum with the contributions of photon decays and annihilation processes of primordial Higgs and  $W$  bosons is considered. A version of the conformal cosmological model is exploited where the Early Universe behaves like a factory of electroweak bosons and Higgs scalars. Within this model, the relation between the position of three peaks with the photon energies of the corresponding processes leads to a simple relation between the  $W$  boson and Higgs particle masses.