

The Schwarzschild solution of the Einstein-Higgs model

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Abstract

We study the Schwarzschild solution of Einstein-Higgs model with Einstein-Higgs interaction in a finite temperature limit. We show that the solution is an Einstein-Higgs solution in the presence of Higgs vacuum energy. The solution is characterized by the Lorentzian motion of the Schwarzschild model and the Higgs vacuum energy. The Schwarzschild solution of the Einstein-Higgs model is found to be the solution of Einstein-Higgs model in the finite temperature limit.