The Einstein-Bosch-Abelian model and thermal neutrinos

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Abstract

We study the Einstein-Bosch-Abelian model in the context of the thermal neutrino theory. We show that the Einstein-Bosch-Abelian model is a complete model in which the thermal neutrino condensates are quantum-mechanically distinct, thus providing a smooth transition in the neutrinoless phase of the model. We study the thermal neutrinos in the Einstein-Bosch-Abelian model and show that the thermal neutrinos have the same mass as the thermal neutrinos in the thermodynamical phase of the model. We also comment on possible implications of this result for the non-perturbative study of the thermal neutrinos in the model.