

**Semilinear Klein-Gordon Equation in the
Friedmann-Lamaitre-Robertson-Walker space-
time**

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We present a condition on the self-interaction term that guarantees the existence of the global in time solution of the Cauchy problem for the semilinear Klein-Gordon equation in the Friedmann-Lamaitre-Robertson-Walker (FLRW) model of the contracting universe. For the Klein-Gordon equation with the Higgs potential we give a lower estimate for the lifespan of solution.