

Precise computation of thermal-phase-transition parameters

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I will discuss recent progress in the determination of parameters of thermal-phase transitions, relevant for describing production of gravitational wave backgrounds in the early Universe, using effective field theory (EFT) methods. I will highlight the importance of including previously neglected terms in the EFT expansion and the difficulties and solutions for computing the corresponding corrections to the action around non-homogeneous field configurations (e.g. bounce).

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