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; 2.3.4.1 Solutions of the mean-field equations of the SU(2) Higgs model  
2.3.5 Improved variational estimates for the SU(2) Higgs model  
2.3.6 Summary ; 2.4 Renormalization group  
; 2.4.1 Generalities ; 2.4.2 Block-spin transformations  
; 2.4.3 Iteration of the block-spin transformation  
; 2.4.4 Field renormalization  
2.4.5 Linearized renormalization-group transformation and universality

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Sommario/riassunto

The phase structure of particle physics shows up in matter at extremely high densities and/or temperatures as they were reached in the early universe, shortly after the big bang, or in heavy-ion collisions, as they are performed nowadays in laboratory experiments. In contrast to phase transitions of condensed matter physics, the underlying fundamental theories are better known than their macroscopic manifestations in phase transitions. These theories are quantum chromodynamics for the strong interaction part and the electroweak part of the Standard Model for the electroweak interaction. It is

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