

The infinite ranged model for which maximum theoretical progress has been achieved shows such a continuum of relaxation times. Sompolinsky²⁰ has associated the x -parameter of Parisi with the various time scale t_x in the problem; t_x corresponds to tunnelling between valleys, with x being a measure of distance between valleys in the configuration space. Sompolinsky²¹ has developed a time dependent mean field theory which uses the correlation function $q(t)$ of Eq. (2.4) as the order parameter. His calculation brings out very clearly how the randomness induces time-persistent correlation which gives rise to SG freezing.

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