

Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Aging at criticality in models with absorbing states JOSE J. RAMASCO, Physics Department, Emory University, MALTE HENKEL, Laboratoire de Physique des Materiaux, Universite Henri Poincare, Nancy, France, MARIA AUGUSTA SANTOS, CONSTANTINO A. DA SILVA SANTOS, Centro de Fisica do Porto, Universidade do Porto, Portugal — The long-time dynamics of the critical models with absorbing states which are brought suddenly out of an uncorrelated initial situation undergoes ageing in close analogy with quenched magnetic systems. In particular, we show that time-translation invariance is broken and that dynamical scaling holds. We find that the autocorrelation and autoresponse exponents λ_Γ and λ_R are equal but, in contrast to systems relaxing to equilibrium, the aging exponents a and b are distinct. A recent proposal to define a non-equilibrium temperature through the short-time limit of the fluctuation-dissipation ratio is therefore not applicable.

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Date submitted: 14 Dec 2004

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