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Model A Dynamics in Potts Models and Pure Lattice Gauge Theory BERND BERG, ALEXEI BAZAVOV, Florida State University, ALEXANDER VELYTSKY, UCLA — Model A Dynamics in Potts Models and Pure Lattice Gauge Theory (A. Bazavov and B.A. Berg, Florida State University, A. Velytsky, UCLA) We consider model A dynamics for a quench from the disordered (confined) to the ordered (deconfined) QCD phase. The linear theory of spinodal decomposition is compared with MC data and the critical mode of the linear approximation is determined, which is related to the Debye screening mass. The quench leads to competing vacuum domains, which are difficult to equilibrate. Structure functions show pronounced peaks. We study their finite size behavior as well as the gluonic energy density in the presence of such peaks.

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