Kinetically Constrained Spin Models - Cancrini 2007

Note: results are in section 6

* Positivity of spectral gap:
  + East - any q \in (0,1)
  + FA-1f - any q \in (0,1)
  + FA-jf - any q \in (0,1) provided d > 1 and j <= d
* Bounds on spectral gap in terms of q
  + East - lower
  + FA-1f - lower and upper for all dimensions
  + FA-jf - lower and upper provided d > 1 and j <= d

NE-Kordzakhia 2006

* All results are for NE-process
* Characterising all ergodic, translation invariant, stationary measures in terms of p
* For p > p\_c product bernoulli is ‘mixing’ I.e. probabilities converge
* Moreover, if started from product bernoulli, convergence is exponential

Time scale separation and dynamic heterogeneity - 2012

* All results are for East-process
* Equivalence of characteristic time scales (mix, rel, hit times) up to L=O(1/q)
* Time scale separation (If L>L’, time(L) >~ time(L’)?):
  + Finite lengths: completely solved, separation occurs
  + Scale 1/q^\gamma: partially solved, separation occurs if ratio above threshold (\gamma \in (0, 1))
  + Scale 1/q: solved, no separation
* Some other stuff I don’t want to read

Mixing time bounds for oriented kinetically constrained spin models - Chleboun 2013

* Oriented KCMs in dim>1 (including NE):
  + N < T\_mix < N logN if inf gap\_n > 0 (holds for NE)

D-dim-east-relax - 2016

* Finds relaxation time for all East-like processes as q -> 0

Front evolution of FA-1f model - Blondel 2018

* All results for FA-1f model
* Distribution seen from front converges to unique distribution
* SLLN and CLT for front

D-dim-east-mixing - 2015

* Mixing time of East-Like Processes satisfies C1\*L < T\_mix < C2\*L

East-cutoff - 2014

* All results for East-process
* SLLN and CLT for front
* Rate of convergence of distribution behind front