

# Interacting Particle Systems: Almost sure uniqueness, pathwise duality, and the mean-field limit

Jan M. Swart

## Bibliography

# Probability kernels

-  D.J. Aldous. The percolation process on a tree where infinite clusters are frozen. *Math. Proc. Cambridge Philos. Soc.* 128 (2000), 465–477.
-  D.J. Aldous and A. Bandyopadhyay. A survey of max-type recursive distributional equations. *Ann. Appl. Probab.* 15(2) (2005), 1047–1110.
-  E. Baake, F. Cordero, and S. Hummel. Lines of descent in the deterministic mutation-selection model with pairwise interaction. Preprint (2021) arXiv:1812.00872v3.
-  I. Benjamini and O. Schramm. Unpublished. A sketch of the argument can be found in v.d. Berg & Tóth (2001), Section 3.
-  J. van den Berg, B. Tóth. A signal-recovery system: asymptotic properties, and construction of an infinite-volume process. *Stochastic Process. Appl.* 96(2) (2001), 177–190.

# Probability kernels

-  L. Gray Duality for general attractive spin systems with applications in one dimension. *Ann. Probab.* 14(2) (1986), 371–396.
-  S.J. Handjani. The complete convergence theorem for coexistent threshold voter models. *Ann. Probab.* 27(1): 226–245, 1999.
-  T.E. Harris. Nearest-neighbor Markov interaction processes on multidimensional lattices. *Adv. Math.* 9 (1972), 66–89.
-  T.E. Harris. Contact interactions on a lattice. *Ann. Probab.* 2, 969–988 (1974).
-  S. Jansen and N. Kurt. On the notion(s) of duality for Markov processes. *Prob. Surveys* 11 (2014), 59–120.

# Probability kernels

-  T. Johnson, M. Podder, and F. Skerman. Random tree recursions: Which fixed points correspond to tangible sets of trees? *Random Struct. Algorithms* 56(3) (2020), 796–837.
-  J.N. Latz and J.M. Swart. Commutative monoid duality. Preprint (2021) arXiv:2108.01492.
-  T.M. Liggett. Existence theorems for infinite particle systems. *Trans. Am. Math. Soc.* 165 (1972), 471–481.
-  T. Mach, A. Sturm, and J.M. Swart. Recursive tree processes and the mean-field limit of stochastic flows. *Electron. J. Probab.* 25 (2020) paper No. 61, 1–63.
-  B. Ráth, J.M. Swart, and M. Szőke. A phase transition between endogeny and nonendogeny. Preprint (2021) arXiv:2103.14408.

# Probability kernels

-  B. Ráth, J.M. Swart, and T. Terpai. Frozen percolation on the binary tree is nonendogenous. Preprint (2019) arXiv:1910.09213.
-  A. Sturm and J.M. Swart. Pathwise duals of monotone and additive Markov processes. *J. Theor. Probab.* 31(2) (2018), 932–983.
-  W.G. Sullivan. A unified existence and ergodic theorem for Markov evolution of random fields. *Z. Wahrscheinlichkeitstheorie Verw. Geb.* 31 (1974), 47–56.
-  W.G. Sullivan. Processes with infinitely many jumping particles. *Proc. Am. Math. Soc.* 54 (1976), 326–330.