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Educational Curriculum	2010, 1.1, TU Berlin, Germany 2014, Summa cum laude, Ruhr-University Bochum, Germany
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Current research interest	<ul style="list-style-type: none"> - Probabilistic methods for mobile ad-hoc networks - Stochastic geometry and interacting particle systems - Gibbs measures and phase transitions
Research methods	<ul style="list-style-type: none"> - Probability theory
Publications	<p>B.Jahnel, C.Külske, Gibbsian representation for point processes via hyperedge potentials, preprint available at, arXiv:1707.05991 (2017)</p> <p>B.Jahnel, C.Külske, The Widom-Rowlinson model under spin flip: Immediate loss and sharp recovery of quasilocality, to appear in Annals of Applied Probability (2017)</p> <p>B.Jahnel, C.Külske, Sharp thresholds for Gibbs-non-Gibbs transition in the fuzzy Potts models with a Kac-type interaction, Bernoulli Journal, Vol. 23, No. 4A, 2808-2827 (2017)</p>

Dynamical Gibbs-non-Gibbs transitions for continuous spin models

Abstract: I will present results on the behaviour of certain random network models in continuous space under time evolution. At time zero, the network can be formulated as an infinite-volume Gibbs measures for hard-core interaction potentials based on superpositions of Poisson point processes. The time-evolution is given by a simple Poisson flip dynamics which independently flips the individual spins. The main results represent first steps into the analysis of non-localities induced into the system by the time evolution, which result in non-Gibbsian behaviour of the evolved model. Finally, I sketch ideas on how to extend this line of research and make a connection to our future collaboration partners.