

Random permutations, Gibbs measures and point processes

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We consider the space of permutations of a Poisson point processes in \mathbb{R}^d , and establish sufficient conditions for the existence and uniqueness of Gibbs measures on this space in the high temperature regime, associated to a general potential. We show that these measures are supported on finite cycle permutations.

Joint work with Inés Armendáriz and Pablo A. Ferrari.