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A Density for Matérn's Hard-core Model II

An enquiry about the asymptotic third and fourth moments of some hard-core models has resulted in more detailed consideration of Matérn's hard-core Model II. I shall show that the joint density function for points (x_1, \dots, x_n) in a finite region and satisfying a constraint $|x_i - x_j| > 2R > 0$ (all $i \neq j$) is in principle computable when generated from a Poisson process.