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Title: Contact distribution in a thinned Boolean model with power law radii

Abstract: we consider a weighted stationary spherical Boolean model in \mathbb{R}^d to which a Matern-type thinning is applied. Assuming that the radii of the balls in the Boolean model have regularly varying tails, we establish the asymptotic behaviour of the tail of the contact distribution of the thinned germ-grain model under 4 different thinning procedures of the original model.