

Stein's method and Palm theory in random measures

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In this talk, I will discuss the connection between Stein's method and Palm theory and show how this connection can be exploited to study Poisson process approximation for point processes and normal approximation for random measures, with applications to computational biology and stochastic geometry.

This talk is based on my joint work with Aihua Xia (*Ann. Probab.* 2004), joint work with Leung, Choi and Xia (*J. Computat. Bio.* 2005) and joint work with Roellin and Xia (Preprint 2019).