



The University of Chicago
Department of Statistics

Seminar Series

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“Probability : Global Divergence of Spatial Coalescents”

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308 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

Recently, Limic and Sturm (2006) introduced a class of processes which they called spatial coalescents and which generalizes the notion of a coalescent with multiple collisions to a setting where particles can only coalesce if they are on the same vertex of a given graph G and particles can travel on the graph according to some given transition probability. This corresponds to incorporating the effect of spatial structure and migration in the study of the genealogy of a population. We obtain various asymptotic results for these processes. Joint work with Omer Angel, Alan Hammond and Vlada Limic.