

# SCALING THE SYMBIOTIC BRANCHING MODEL

LEIF DÖRING *University of Mannheim, Germany*, E-mail: doering@uni-mannheim.de

**Abstract:** The symbiotic branching model is a system of stochastic differential equations used to model two-species with spatial movement and mutually catalytic branching in which each species influences the other species in the branching variance. On first sight the model seems untractable due to the lack of the branching property. It is due to Mytnik's duality (a mixed Laplace/Fourier-type duality) that results on the longtime behavior as well as large-variance scaling could be found. We discuss old and new results on scaling invariances and possible refinements.