

# Asymptotic speed of propagation in generalized road-field models

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I will consider some reaction-diffusion systems of Fisher-KPP type with heterogeneous diffusion and reaction on the boundary of the domain, which generalize the road-field model introduced by H. Berestycki, J.-M. Roquejoffre and L. Rossi to a larger class of domains. In particular, I will analyze some qualitative properties of the asymptotic speed of propagation for such systems, comparing it with the one of the homogeneous case, and studying its dependence with respect to the size of the domain.