Propagation and reaction-diffusion models with free boundary

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Abstract. In this talk I will discuss some of the mathematical theories on nonlinear parabolic equations motivated by the desire to better understand the propagation phenomena. The talk will start with a brief review of classical works of Fisher, Kolmogorov-Petrovsky-Piskunov and Aronson-Weinberger, and then focus on recent results on free boundary models with local as well as nonlocal diffusion, which are variations of the reaction-diffusion models in the classical works.