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Keng Deng* (deng@louisiana.edu), Department of Mathematics, University of Louisiana at Lafayette, P.O. Box 43568, LAFAYETTE, LA 70504-3568. *Asymptotic Behavior of an SIR Reaction-Diffusion Model.*

We consider an SIR reaction-diffusion model with spatially heterogeneous parameters. We discuss the existence of disease-free equilibrium and endemic equilibrium of the model. We also analyze the asymptotic behavior of the model. (Received August 23, 2018)