

**Joint AARMS-CRM Workshop:** Recent Advances in Functional  
and Delay Differential Equations  
1–5 November 2007

*Spatial dynamics of a reaction-diffusion  
population model with age-structure*

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**Abstract**

The spreading speed, the existence of monotone traveling waves, and the nonexistence of traveling waves are established for a population model with age-structure, which is described by a nonlocal reaction-diffusion system with infinite time delay. It turns out that the spreading speed coincides with the minimal wave speed for monotone traveling waves.