Janos G. Englander* (janos.englander@colorado.edu), 5527 Homestead Way, Boulder, CO 80301, and Renming Song and Yanxia Ren. Weak extinction versus global exponential growth of total mass for SPDE’s and super-Brownian motions.

We study the behavior of the total mass for a class of SPDE’s which describe the density (in one-dimension) of certain super-Brownian motions. In higher dimensions this still makes sense, although there are no weak functional solutions any more – the solutions will be distribution-valued.

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