

1027-92-127

Joseph C Watkins* (jwatkins@math.arizona.edu), Department of Mathematics, University of Arizona, Tucson, AZ 85721. *Demographic Fluctuations in Structured Populations*.

We present a central limit theorem for discrete time structured population models. We shall consider circumstances in which individuals have no distinguishing features beyond those of their class membership and where the impact of interactions between individuals is inversely proportional to population size. We shall give several examples of the theorem including density dependent Leslie matrices and flour beetle populations. (Received February 23, 2007)