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immigration

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(Submitted on 2 May 2012)

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positively regular). Namely, it is proved that a sequence of appropriately scaled random step functions formed from a sequence of critical primitive multi-type branching processes with immigration converges weakly towards a squared Bessel process supported by a ray determined by the Perron vector of the offspring mean matrix.

Under natural assumptions a Feller type diffusion approximation is derived for critical multi-type

branching processes with immigration when the offspring mean matrix is primitive (in other words,

Asymptotic behavior of critical primitive

multi-type branching processes with

Comments: 17 pages Subjects: Probability (math.PR) MSC classes: 60J80, 60F17 (Primary) 60J60 (Secondary) Cite as: arXiv:1205.0388 [math.PR] (or arXiv:1205.0388v1 [math.PR] for this version)

Submission history

From: Márton Ispány PhD [view email] [v1] Wed, 2 May 2012 11:41:49 GMT (15kb)

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