



"Ecocultural range-expansion model of modern humans in Paleolithic"

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Modern human range expansion and the resulting extinction or assimilation of archaic humans such as Neanderthals took place roughly 50,000 years ago. This phenomenon is recently very actively studied by using genetic methods such as ancient DNA analysis. In this talk, a reaction diffusion model is proposed with emphasis on archaeological and ecological aspects. Range expansion dynamics are studied as the traveling wave solutions in the system.