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Stanislav A Molchanov* (smolchan@uncc.edu), Department of Mathematics and Statistics,
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The concept of the intermittency of the physical fields and first of all, the magnetic fields of the sun and stars was suggested by the famous physicist Ya. Zeldovich in 1970th . The mathematical theory of intermittency (at the semi-physical level) has been developed in a large paper “Intermittency, diffusion and generation in a non-stationary random medium” by S. Molchanov, A. Ruzmaikin, D. Sokoloff and Ya. Zeldovich (Sov.Sci.Rev.C: Math.Phys., 1988, pp 1- 10). This topic immediately became popular and the number of mathematical publications in this area is counted in hundreds. The talk will contain the review of some recent applications of the idea of intermittency to the parabolic Anderson model and population dynamics. (Received January 26, 2014)