

Evolutionary games on complex network

Wen-Xu Wang^{1,2} and Bing-Hong Wang^{1,3*}

¹*Department of Modern Physics, University of Science and Technology of China, Hefei 230026, China*

²*Department of Electronic Engineering, City University of Hong Kong, Hong Kong SAR, China*

³*Shanghai Academy of System Science, Shanghai, 200093 China*

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Cooperation is ubiquitous in the real world, ranging from biological systems to economic and social systems. Evolutionary game theory has been considered an important approach to characterizing and understanding the emergence of cooperative behavior in systems consisting of selfish individuals. In this paper, we review some of our works about dynamics of evolutionary games over complex networks, including the effects of network structures on the emergence and persistence of cooperation, resonance type phenomena in evolutionary games, and the memory-based evolution of game dynamics.

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