

SMALL WORLD PRINCIPLE OF THE REAL-WORLD NETWORKS

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Key words: random networks; small world effect; Poisson geometry small world; random recursive trees

Mathematical Subject Classification: 60K35, 60K37

Abstract: This talk focuses on the *small world effect* of real world complex networks. By constructing appropriate mathematical models, we search for the underlying causes which make most real world networks small worlds. Note that *small world effect*, the fact that the diameters of most networks are considerably smaller than their sizes, is one of the most important features of real-world complex networks.