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Synchronization in Triangled Complex Networks

LU Xin-Biao, <sup>1,2</sup> LI Xiang, <sup>1</sup> and WANG Xiao-Fan<sup>1</sup>

<sup>1</sup> Department of Automation, Shanghai Jiao Tong University, Shanghai 200240, China <sup>2</sup> China Institute of Atomic Energy, P.O. Box 275-81, Beijing 102413, China (Received: 2005-9-12; Revised: 2005-11-23)

Abstract: Using a tunable clustering coefficient model without changing the degree distribution, we investigate the effect of clustering coefficient on synchronization of networks with both unweighted and weighted couplings. For several typical categories of complex networks, the more triangles are in the networks, the worse the synchronizability of the networks is.

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Key words: synchronization, weighted network, clustering coefficient

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