

Abstract Submitted
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A node-weight description on a kind of cooperation-competition networks¹ DAN SHEN, DA-REN HE, Yangzhou University — Cooperation and competition between elements usually appear together in complex systems. We consider the kind of the systems, which can be described by bipartite graphs. In the networks there are two types of nodes: some activities, organizations or events, and the participators. The traditional bipartite graph statistical properties may describe the configuration of the cooperation-competition, and the statistical properties about a node weight may describe the different role of a node in cooperation or competition result. We shall present some empirical investigations on Chinese Movie Network, Beijing Restaurant Network and IT product Network as examples.

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Da-Ren He
Yangzhou University

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