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Evangelos Kranakis, Danny Krizanc and Yun Lu*, Department of Mathematics, Kutztown University of PA, Kutztown, PA 19530. *Reconstructing Cactus Graphs from Shortest Path Information.*

In this paper, we investigate the problem of reconstruct graphs based on the given information. In particular, if the underlying network is a cactus graph, then we are able to provide an algorithm that returns all node-labelled cacti consistent with a given set shortest path information. (Received September 25, 2017)