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Vertex and Edge PI Indices of Product Graphs

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This is a joint work with M. H. Khalifeh and A. R. Ashrafi.

The Padmakar-Ivan (PI) index of a graph G is the sum over all edges uv of G of number of edges which are not equidistant to u and v . In this paper, we define a new topological index named vertex PI index. We prove a relation between these two types of topological indices for product graphs.