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CM-5	Adjacency and Laplacian Matrices of Hypergraphs

A k-hypergraph consists of a set V of vertices and a set of E of k-hyperedges, where a k-hyperedge is a k-subset of V. We define the generalized adjacency matrix and the Laplacian matrix of an oriented k-hypergraph. We find the relation between them and compute the entry sum of them. We investigate some spectral properties of the Laplacian matrices of oriented k-hypergraphs.