Connectivity Properties of Oriented Cayley Graphs
Generated by Transpositions

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The class of star generated Cayley graphs has been proposed by Akers et. al. as an attractive alternative to hypercubes. Day and Tripathi proposed an orientation for these graphs. Cheng and Lipman have studied connectivity properties of oriented star generated Cayley graphs.

In this talk we will discuss one possible generalization of the orientation rule for general Cayley graph generated by a transposition, and show that our orientation results in a good connectivity property.