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A GENERALIZATION OF REDFIELD'S MASTER THEOREM ¹

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Generalizations of Redfield's master theorem and the superposition theorem are proved by using decomposition of the tensor product of several induced monomial representations of the symmetric group S_d into transitive constituents. As direct consequences, several corollaries concerning superpositions of graphs are obtained.

Keywords: monomial representations of the symmetric group, automorphism groups of superpositions of graphs

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