

# On the spectrum of derangement graphs

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The spectrum of a graph is the multiset  $\{\lambda_1, \dots, \lambda_n\}$ , where  $\lambda_i$ 's are the roots of the characteristic polynomial of the adjacency matrix of given graph. Let  $G$  be a permutation group, a derangement graph is a graph with vertex set  $G$  and two vertices are adjacent if and only if they do not intersect. In this paper, we compute the spectrum of derangement graphs of well-known groups.

## References

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