

## OVERLAP BASED RESULTS ON ABSOLUTE SUM OF COEFFICIENTS OF CHROMATIC POLYNOMIALS

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### Abstract

Let  $G$  be an arbitrary graph of order  $n$  and  $P(G : \lambda) = \sum_{i=1}^n (-1)^{i+1} a_i \lambda^{i-1}$  be its Chromatic polynomial. The absolute sum of coefficients is simply  $\sum_1^n |a_i|$ . In this paper we obtain the absolute sums of coefficient of chromatic polynomials by coalescences (overlaps) of some pairs of graphs.

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