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Efficient reconstruction of the characteristic polynomial

It was proved by Hagos that, for every graph G, the pair of characteristic polynomials $(\phi^G, \phi^{\overline{G}})$ is reconstructible from the pairs $(\phi^{G\backslash i}, \phi^{\overline{G}\backslash i})$ for i in $V(G)$. In this talk, we present an efficient algorithm that reconstructs $(\phi^G, \phi^{\overline{G}})$ and some related results.