

Acknowledgement: Edge Deletion, Singular Values and ABC Energy of Graphs

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Following Estrada’s method, as given in [1], Ghorbani et al. communicated in [2], and later also in [3], the following result on \mathcal{A} -energy.

Theorem 1. *Let G be a connected graph of order $n \geq 3$. Then*

$$\mathcal{E}_{\mathcal{A}}(G) = \nu_1 \operatorname{Tr} \sum_{i=0}^{\infty} \binom{\frac{1}{2}}{i} \sum_{j=0}^{\infty} \binom{i}{j} (-1)^j \left(\frac{\mathcal{A}}{\nu_1}\right)^{2j}. \quad (1)$$

It is now acknowledged that this theorem and its proof were extracted from reference [1].

References

- [1] E. Estrada, M. Benzi, What is the meaning of the graph energy after all?, *Discr. Appl. Math.* **230** (2017) 71–77.
- [2] M. Ghorbani, X. Li, M. Hakimi–Nezhaad, J. Wang, Bounds on the ABC spectral radius and ABC energy of graphs, *Lin. Algebra Appl.* **598** (2020) 145–164.
- [3] M. Ghorbani, M. Hakimi–Nezhaad, L. Feng, Edge deletion, singular values and ABC energy of graphs, *MATCH Commun. Math. Comput. Chem.* **86** (2021) 643–661.