

Erratum to: A note on the eigenvalues of graphs

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In the paper "A note on the eigenvalues of graphs, *Ars Combinatoria* 94 (2010), 221-227 " by Lihua Feng and Guihai Yu, page 226, we have the following note.

Note. In [1], the author obtained an upper bound $\frac{2}{\sqrt{3}}n$. Unfortunately, its proof is wrong, since he said that "the value $\sqrt{2m - x^2} + x$ is increasing in x for $x \leq m$ ", which should be $x \leq \sqrt{m}$.

Indeed, this note is not correct and Professor Nikiforov's upper bound $\lambda_1 + \lambda_2 \leq \frac{2}{\sqrt{3}}n$ together with its proof there is right.

Consequently, Professor Nikiforov's upper bound is better than our bound $\frac{3}{\sqrt{6}}n$.

References

- [1] V. Nikiforov, Linear combinations of graph eigenvalues, *Electron. J. Linear Algebra* 15 (2006) 329-336.