Erratum to

Sharp Bounds on Random Walk Eigenvalues via Spectral Embedding


by Russell Lyons and Shayan Oveis Gharan

The bounds from [42] on the bottom of p. 7596 and the bottom of p. 7597 were slightly incorrect by virtue of missing the dependence on the degree, \(d\). In addition, [42] assumes that the graph is amenable. The correct bounds are

\[
p_{2t}(x, x) \leq \frac{(2 + D)^{1+D/2}(2d)^{D/2}}{C}(2t)^{-D/2}
\]

and

\[
c_5 < e^{2/a-1}(ac_2)^{2/a}
\]

\[
\frac{4(a+1)/(a+2)d}{a}
\]

In the former case, our bound is better except when \(d = 2\), when ours is worse by about 4%.

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