

ERRATA: UPPER AND LOWER BOUNDS FOR EIGENVALUES OF THE LAPLACIAN ON SPHERICAL CAP DOMAINS *

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- Page 569, line 10, should read

When our estimates for the principal eigenvalue are compared to the results of [4] and [8], we find that our lower bound is sharper.

- Page 570, line 1, should read

The lower bound for μ_1 that we derive here is sharper than the previous estimates derived in [4, 8] for $0 < \vartheta_0 < \pi/2$.

- Equation (2.5b) should read

$$\left(\frac{j_k^0}{\vartheta_0}\right)^2 - \frac{1}{4}(1 + \alpha(\vartheta_0)) < \mu_k^0(\vartheta_0) < \left(\frac{j_k^0}{\vartheta_0}\right)^2 - \frac{1}{3}, \quad (2.5b)$$

- Page 572, lines 8–14, should be replaced by

The notation in [4] and [8] is slightly different from that used here ($\mu_1^0 = 2\lambda_1$ where λ_1 is the first eigenvalue of the Laplacian as defined in [8]; setting $R = D = 1$ and $\bar{u} = \pi - \vartheta_0$, we find that $\mu_1^0 = -2\lambda_1$ where λ_1 is the first eigenvalue of the Laplacian as defined in [4]). Taking the best estimates from [4], [8], we find that the lower bound in (2.5b) is sharper; the upper bound in (2.5b) agrees with the upper bound presented in the Addendum to [4].

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