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 \( \mu_1 \) 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

\[
\left( j_k \frac{\partial}{\partial \vartheta_0} \right)^2 - \frac{1}{4} (1 + \alpha(\vartheta_0)) \prec \mu_k(\vartheta_0) \prec \left( j_k \frac{\partial}{\partial \vartheta_0} \right)^2 - \frac{1}{3},
\]

(2.5b)

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

The notation in [4] and [8] is slightly different from that used here (\( \mu_0 = 2\lambda_1 \) where \( \lambda_1 \) is the first eigenvalue of the Laplacian as defined in [8]); setting \( R = D = 1 \) and \( \overline{u} = \pi - \vartheta_0 \), we find that \( \mu_1 = -2\lambda_1 \) where \( \lambda_1 \) 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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