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**Estimates on Kernel Functions of Elliptically Schlicht Domains**

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**Abstract.** Inequalities for derivatives of the Bergman and  $L$ -kernel are derived for elliptically schlicht domains, using the Dirichlet Principle. By introducing a generalization of elliptically schlicht domains involving metrics of constant positive curvature, it is seen that the inequalities smoothly interpolate the bounded, unbounded and elliptically schlicht cases.

**Keywords.** Elliptically schlicht, univalent, Bergman kernel, Green's function, inequalities, conformal metrics, elliptic capacity, Dirichlet Principle.

**2000 MSC.** 30C40, 30C45, 30C55, 30C75.

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