

Pucci's conjecture on a priori estimates for elliptic PDE and a related variational problem

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Abstract: A radial variational problem on the ball $\{|x| \leq 1\}$ in \mathbb{R}^m , $m \geq 2$, related to a priori estimates for solutions to extremal elliptic equations with ellipticity constant α is investigated. This problem has been studied and solved (by P. Manselli, 1971) in L^p spaces with $p \leq m$. In the talk, a solution of this problem for $p > m$ is discussed.