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Note On Bernstein's Inequality For The Third Derivative Of A Polynomial

Authors: Clément Frappier,

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Abstract:

Given a polynomial $p(z)=\sum_{j=0}^n a_jz^j$, we give the best possible constant $c_3(n)$ such that $\|p'''\|+c_3(n)|a_0|\leq n(n-1)(n-2)\|p\|$, where $\|\cdot\|$ is the maximum norm on the unit circle $\{z:|z|=1\}$. Most of the computations are done with a computer.



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