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The Best Constant For An Algebraic Inequality

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Abstract: We determine the best constant λ for the inequality $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} + \frac{1}{t} \geq \frac{\lambda}{1+16(\lambda-16)xyzt}$; where $x, y, z, t > 0$; $x + y + z + t = 1$. We also consider an analogous inequality with three variables. As a corollary we establish a refinement of Euler's inequality.



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