

A HILBERT-TYPE INEQUALITY FOR FOURIER COEFFICIENTS

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Abstract. There is extensive literature on Hilbert inequality and its many extensions. In this work we obtain inequalities involving Fourier coefficients of a Hölder continuous function. The results given here are valid without any assumption of monotonicity or signs of the Fourier coefficients.

Mathematics subject classification (2020): Primary 26D15; Secondary 40G99.

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