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A SOLUTION TO AN OPEN PROBLEM FOR WILKER–TYPE INEQUALITIES

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Abstract. This paper is to solve the open problem for Wilker-Type inequality: what are the best possible for the constants c_1 and c_2 such that the double inequality $c_1x^{3a}\tan x < (\frac{\sin x}{x})^{2a} + (\frac{\tan x}{x})^a - 2 < c_2x^{3a}\tan x$ holds?

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