



Volume 6, Issue 2, Article 34

On a Convolution Conjecture of Bounded Functions

Authors: [Krzysztof Piejko](#), [Janusz Sokol](#), [Jan Stankiewicz](#),

Keywords: Hadamard product, Convolution, Subordination, Bounded functions.

Date Received: 30/11/04

Date Accepted: 03/03/05

Subject Codes: Primary 30C45; Secondary 30C55.

Editors: [Kazimierz Nikodem](#),

Abstract: We consider the convolution $P(A, B) \star P(C, D)$ of the classes of analytic functions subordinated to the homographies $\frac{1+Az}{1-Bz}$ and $\frac{1+Cz}{1-Dz}$ respectively, where A, B, C, D are some complex numbers. In 1988 J. Stankiewicz and Z. Stankiewicz [11] showed that for certain A, B, C, D there exist X, Y such that $P(A, B) \star P(C, D) \subset P(X, Y)$. In this paper we verify the conjecture that $P(X, Y) \subset (A, B) \star P(C, D)$ for some A, B, C, D, X, Y .



[Download Screen PDF](#)



[Download Print PDF](#)



[Send this article to a friend](#)



[Print this page](#)