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**Olga M.Katkova**

**Multiple Positivity and the Riemann Zeta-Function**

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**Abstract.** This paper investigates the relationship between the Riemann  $\zeta$ -function and various classes of generating functions of multiply positive sequences introduced by Schoenberg.

**Keywords.** Multiply positive sequences, totally positive sequences, Pólya frequency sequences, Laguerre-Pólya class, Riemann  $\zeta$ -function.

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