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On the Proximate Order of Growth of Generating Functions of Pólya Frequency Sequences

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Abstract. We study the possible growth of Pólya frequency sequence generating functions analytic in the unit disk and describe the proximate orders of growth of these functions. Some classical function theory results concerning orders of growth are generalized to the case of proximate orders.

Keywords. Pólya frequency sequence, multiply positive sequence, generating function, proximate order, total positivity.

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