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On the derivative of inner functions

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According to the canonical factorization theorem, an inner function decomposes as $\phi = BS$, where B is a Blaschke product formed with zeros $(z_n)_{n \geq 1}$ and S is a singular inner function generated by a positive singular measure σ . The relation between various integral means of ϕ' on one hand, and $(z_n)_{n \geq 1}$ and σ on the other hand, has attracted the attention of many mathematicians at least since 60's. In this talk, we will discuss the rich history of this subject and, if time permits, we mention some recent developments.