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A Pick Function Related to an Inequality for the Entropy Function

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Abstract:	The function $\psi(z)=2/(1+z)+1/(\log{(1-z)/2})$, holomorphic in the
	cut plane $\mathbb{C} \setminus [1,\infty[$, is shown to be a Pick function. This leads to an
	integral representation of the coefficients in the power series expansion
	$\psi(z)=\sum\limits_{n=0}^{\infty}eta_n z^n$, $ z <1$. The representation shows that (eta_n)
	decreases to zero as conjectured by F. Topsøe. Furthermore, (eta_n) is

completely monotone.



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