Using squares of real-valued functions to prove that the $\Xi^*(z)$ function and certain other entire functions have only real zeros

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Abstract
It is shown how squares of real-valued functions can be used to give new proofs of the reality of the zeros of

$$
\Xi^*(z) = 4\pi^2 \int_0^\infty \cosh^2 \frac{9u}{2} e^{-2\pi \cosh 2u} \cos z u \ du,
$$

$$
K_iz(a) = \int_0^\infty e^{-a \cosh u} \cos z u \ du, \quad a > 0,
$$

and of some other entire functions.