Some properties of analytically hyponormal operators

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In this paper, we provide a condition for a given analytically hyponor- mal operator to be subscalar. Especially, we show that if T is an operator with $F(T)$ hyponormal where $F(z)$ is the exponential function, then T is subscalar. As a corollary, we get that such operators with rich spectra have a nontrivial invariant subspace.