## The structural impedance of the Higgsmatter sector of the black hole

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## Abstract

The structural impedance of the Higgs-matter sector of the black hole is studied. The structural impedance for a non-attractor black hole is computed for a spherical black hole in the presence of a dynamical metric which defines the black hole's geometry. The resulting impedance is found to be the same as the black hole's acoustic impedance. For a classical black hole, the problem of the structural impedance is solved. The cost-effectiveness of the Higgs-matter sector is also reviewed.