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Imaginary scaling

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Recently, a hitherto unknown class of RG-stable relations between parameters in bosonic field theories have been identified and dubbed as the r0 or "goofy" symmetries. The 1-loop properties of an invariant 2-Higgs Doublet Model and a minimal symmetric model will be discussed. It is concluded that the symmetry is present at the 1-loop provided the UV cut-off squared transforms non-trivially under r0. The minimal model requires the presence of two real fields.

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