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Hidden Conformal Symmetry of Maxwell's Theory in $d \neq 4$

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In this work, we define a modified non-local conformal transformation compatible with BRST formalism for $U(1)$ gauge field, which is a symmetry of the Maxwell's theory in any dimension. We prove the invariance by explicitly showing that the gauge invariant transverse two point function, the classical action, and equation of motion are unchanged under such transformation.

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