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Abstract:	Using sheaves of $ \mathbb{A}^1$-connected components, we prove that the Morel-Voevodsky singular construction on a reductive algebraic group fails to be $ \mathbb{A}^1$-local if the group does not satisfy suitable isotropy hypotheses. As a consequence, we show the failure of $ \mathbb{A}^1$-invariance of torsors for such groups on smooth affine schemes over infinite perfect fields. We also characterize $ \mathbb{A}^1$-connected reductive algebraic groups over a field of characteristic 0.
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