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**A Holographic  $c$ -Theorem for Schrodinger Spacetimes** WEISHUN ZHONG, JAMES LIU, University of Michigan — We prove a  $c$ -theorem for holographic renormalization group flows in a Schrodinger spacetime that demonstrates that the effective radius  $L(r)$  monotonically decreases from the UV to the IR, where  $r$  is the bulk radial coordinate. This result assumes that the bulk matter satisfies the null energy condition, but holds regardless of the value of the critical exponent  $z$ . We also construct several numerical examples in a model where the Schrodinger background is realized by a massive vector coupled to a real scalar. The full Schrodinger group is realized when  $z = 2$ , and in this case it is possible to construct solutions with constant effective  $z(r) = 2$  along the entire flow.

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