

Abstract Submitted  
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**Fluctuation-dissipation theorem for chiral systems in nonequilibrium steady states**<sup>1</sup> DIMA FELDMAN, CHENJIE WANG, Brown University  
— We consider a three-terminal system with a chiral edge channel connecting the source and drain terminals. Charge can tunnel between the chiral edge and a third terminal. The third terminal is maintained at a different temperature and voltage than the source and drain. We prove a general relation for the current noises detected in the drain and third terminal. It has the same structure as an equilibrium fluctuation-dissipation relation with the nonlinear response  $\partial I/\partial V$  in place of the linear conductance. The result applies to a general chiral system and may be useful for detecting “upstream” modes on the quantum Hall edges.

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