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**Nonlinear dynamics of near-extremal black holes** STEPHEN GREEN, Perimeter Institute for Theoretical Physics, SAMUEL GRALLA, PETER ZIMMERMAN, University of Arizona — Near-extremal black holes possess a family of long lived quasinormal modes associated to the near-horizon throat geometry. For long lived modes, nonlinear interactions between the modes can potentially dominate over dissipation. We develop a framework for treating these interactions, and we study their dynamics.

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