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Physics near Rapidly Spinning Black Holes SAMUEL GRALLA, University of Arizona, ALEXANDRU LUPSASCA, Harvard, SCOTT HUGHES, MIT, ACHILLEAS PORFYRIADIS, ANDREW STROMINGER, Harvard, NIELS WARBURTON, MIT — The near-horizon region of a near-extreme Kerr black hole possesses additional emergent symmetries and can be thought of as a spacetime in its own right. I will discuss the dynamics of particles and fields in this region, the constraints imposed by symmetry, and observational consequences for astrophysical black holes.

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