Particle on the Innermost Stable Circular Orbit of a Rapidly Spinning Black Hole SAMUEL GRALLA, ACHILLEAS PORFYRIADIS, Harvard University — We consider the field of a particle orbiting on the innermost stable circular orbit of a nearly extremal Kerr black hole. We derive an analytic expression for the scaling of the power radiated as extremality is approached. This can be viewed as a "critical exponent" for the simplified behavior near the zero-temperature point of the Kerr family.

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