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Revisiting the emission from an extreme mass ratio plunge AARON ZIMMERMAN, Canadian Institute for Theoretical Astrophysics, ZACHARY MARK, YANBEI CHEN, Caltech — The final stage of an extreme mass ratio inspiral is the rapid plunge of the small particle into a black hole, leading to ringdown. This ringdown carries information about the spacetime near the light ring, but in principle the final emission of the particle probes the spacetime closer to the horizon. Using a near-horizon expansion, we explore the emission from the last stage of the plunge into a spinning black hole, and its imprint on the ringdown signal.

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