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Gravitational Self-force in a Radiation Gauge: Circular Orbits in the Schwarzschild Spacetime TOBIAS KEIDL, University of Wisconsin–Washington, JOHN FRIEDMAN, LARRY PRICE, ABHAY SHAH, University of Wisconsin–Milwaukee — In this talk, I discuss current progress in computing the self-force of a perturbation caused by a particle in circular orbit in Schwarzschild. This talk will focus on the developing the formalism necessary. Using only a single Weyl component of the perturbation, we generate a Hertz potential and use this to calculate the perturbed metric and self-force.

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