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## Scalar wave emission from particles radially infalling in a Schwarzschild black hole

Friday, 31 October 2025 16:30 (30 minutes)

I present an analytical computation of the energy emitted by a scalar particle radially infalling into a Schwarzschild black hole spacetime within the framework of the gravitational self-force. The results are expressed in Post-Newtonian expanded form, as is customary.

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