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Uniformly accelerated point charge: cusp radiation

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A curious uniformly accelerated point charge, which moves neither in a straight line nor in a circle, but in a cusp, is investigated. We find the angular distribution of the Larmor radiation, the constant power, and the intensity in the maximal direction. We also confirm that the vacuum excitation spectra of quantized field detectors on the world line is analytic and hotter than rectilinear acceleration radiation.

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