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Double Assisted Schwinger effect

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We study electron-positron pair creation by strong electric field (the Schwinger effect), assisted by an electromagnetic plane wave of a weaker amplitude and keV energy range, and an additional high-energy (MeV) photon, by semiclassical worldline instanton approach. We show that the rate of the process is greater than in the absence of one of these three components. We compare the field configuration with similar ones discussed in the literature, and discuss the possibility of experimental observation of the effect

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