

Sauter-Schwinger Effect for Colliding Laser Pulses

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Via a combination of analytical approximations and numerical simulations, we study electron-positron pair creation induced by the field of two colliding (transversal and linearly polarized) laser pulses. Even beyond the locally constant field approximation, our analytical results show remarkably good agreement with the numerical simulations via the Dirac-Heisenberg-Wigner approach (see the talk by C Kohlfuerst).