

GENERALIZED FERMI ACCELERATION

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The present paper proposes a generalized description of Fermi-type acceleration processes, by following the momentum of the particle through a continuous sequence of accelerated frames, defined in such a way that the electric field vanishes at each point along the particle trajectory. This unified description of Fermi acceleration applies equally well in sub- and ultra-relativistic settings, in Cartesian or non-Cartesian geometries, flat or non-flat space- time.

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