

## On adiabatic processes at the subatomic level (Expanded republication PI)

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**Abstract:** Analysis of adiabatic processes involving elementary electromagnetic particles at the subatomic level and of the manner in which these processes correlate with the Principle of conservation of energy, the Principles of least action and stationary action and entropy. Analysis of the initial irreversible adiabatic acceleration sequence of newly created elementary electromagnetic particles and its relation to these principles. Exploration of the implications if this first initial adiabatic acceleration sequence is not subject to the Principle of conservation.

**Keywords:** adiabatic process, acceleration, kinetic energy, conservation of energy, least action, entropy

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An expanded version of the same article was republished upon invitation in 2021 as a book chapter in a final version under the title “*On adiabatic processes at the subatomic level*” in book titled “*Newest Updates in Physical Science Research Vol. 4*” which is part of a collection that pre-selects papers deemed worthy of attention in the global offer, to make them more immediately available to the community.

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**[INDEX - Electromagnetic Mechanics of Elementary Particles](#)**