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## On the $\lambda$ -extended class of the canonical transformations

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A new type of canonical transformations for the multiplicative Hamiltonian, which considered as a 1-parameter:  $\lambda$ -extended class from the standard additive form of the Hamiltonian, was found and called  $\lambda$ -extended class of the standard canonical transformations. The  $\lambda$ -extended canonical transformations could be treated as a generating function to produce an infinite hierarchy of the 4 standard types of the canonical transforms.

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