

Conformal fields and integrals of motion in pp waves and electromagnetic fields

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The problem of integrals of the motion for the conformal Killing fields in curved space-times equipped with electromagnetic backgrounds will be analysed. In particular, for the pp-wave spacetimes the explicit form of conserved charges will be presented. Relations between these charges and symmetries will be discussed in various Lagrangian and Hamiltonian approaches.

Author: ANDRZEJEWSKI, Krzysztof (University of Lodz)

Presenter: ANDRZEJEWSKI, Krzysztof (University of Lodz)

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