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REGGAE: Monte Carlo generator of momenta obeying energy and momentum conservation

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A Monte Carlo event generator REGGAE is presented which can generate momenta for given set of particles so that total energy and momentum assumes a pre-set value. The generator is proved to fill the available phase-space uniformly. In comparison to other algorithms it is considerably more effective in situations where many particles are produced and/or large part of the total energy is stored in form of the masses of particles.

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