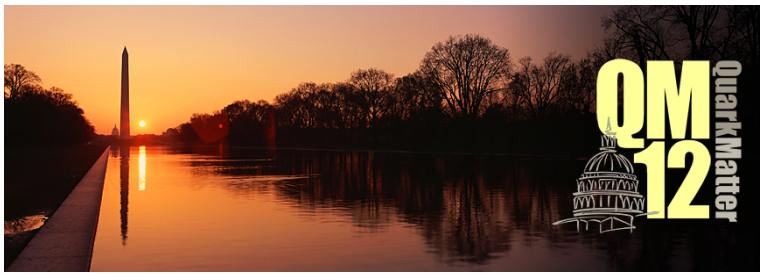


Contribution ID: **560** Type: **Poster**

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

*Thursday, 16 August 2012 16:00 (2 hours)*

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.

**Primary author:** TOMASIK, Boris (Univerzita Mateja Bela (SK))

**Co-authors:** MELO, Ivan (University of Zilina (SK)); MERES, Michal (Comenius University (SK)); Prof. BALEK, Vladimir (Comenius University); CERNY, Vladimir (Comenius University (SK))

**Presenter:** TOMASIK, Boris (Univerzita Mateja Bela (SK))

**Session Classification:** Poster Session Reception

**Track Classification:** Hadron thermodynamics and chemistry