

# Development, validation and maintenance of Monte Carlo generators & generator services in the LHC era

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The library of Monte Carlo generator tools maintained by LCG (GENSER) guarantees the centralized software and physics support for the simulation of fundamental interactions, and is currently widely adopted by the LHC collaborations.

While the activity in the LCG Phase I was mostly concentrating in the standardization, integration and maintenance of the existing Monte Carlo packages, more emphasis is currently being placed on the contribution to the development, testing and primary validation of new Monte Carlo packages, most of them designed using object oriented technologies.

The current status and the future plans of this activity are presented, with emphasis on the testing and validation.

The status of MCDB, the public database for the configuration, book-keeping and storage of the generator level event files is also reviewed.

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