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Subject: CbmUrqmdGenerator

Posted by [Volker Friese](#) on Tue, 26 May 2009 10:58:24 GMT

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The interface to the UrQMD output file ftn 14 has been extended to

automatically read the lab transformation beta from the UrQMD event header file and perform the appropriate Lorentz transformation to the lab system. It is thus not required any longer that the UrQMD file be produced in the CM system.

allow for an event plane angle different from zero, a functionality not provided by UrQMD itself. The user can call the method `CbmUrqmdGenerator::SetEventPlane(phiMin, phiMax)`; then, a random event plane angle is produced with a flat distribution between phiMin and phiMax (to be specified in radians). All track momenta are rotated accordingly before being passed to the stack.

store the event plane angle in the `CbmMCEvent` class (branch `MCEvent`).

This new functionality is provided by the class `CbmUrqmdGenerator` (library `cbmgenerators`). Of course, you are free to use `FairUrqmdGenerator` if you do not need this functionality. However, then the impact parameter `b` will not be stored in `CbmMCEvent` (but, as before, in `FairMCEventHeader`).

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