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Subject: Re: box generator

Posted by [Pablo Genova](#) on Mon, 21 May 2007 08:30:30 GMT

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Hi Stefano,

so we misunderstood the aim of the box generator.

The box generator is not a generator which generates uniformly on the solid angle, but it generates uniformly on theta, phi angles.

I mean, if one wants to generate isotropically in 3D with a fixed total momentum, or fixed transverse momentum, which is a common request, one has to generate uniformly on  $\cos\theta$  and  $\phi$  and the cbmbox generator is NOT correct for this.

I thought it were!

I think it is really useful to have a 3d uniform generator not to be confused with the present box generator.

I do not understand completely the need for uniform generation on theta and phi variables, but this is not important.

ciao, Pablo

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