Subject: Re: box generator

Posted by Katarzyna Szymanska on Tue, 22 May 2007 11:01:40 GMT

Hi Stefano,

Few remarks concerning the direction generation:

1) the possible distributions of the (physically meaningful) directions are infinite: the uniform direction is the simplest, corresponds to the s-wave in the two-body kinematics and is mostly used to evaluate the relative acceptances and efficiencies at different solid angles

2) therefore, we think that the collaboration needs such a distribution which is generated by $-1 < \cos(theta) < +1$ and $0 < phi < 360$, both uniform.

3) neverthless, if someone uses the "uniform theta" distribution, which should peak the directions forward, one has the remember that the relative and absolute acceptances, efficiencies must be suitable normalized.

4) in any case, it will be useful to comment clearly the "uniform theta" distribution and its physical meaning in term of directions.

Regards,

Felice and Kasia