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Subject: Beam emittance in CBMROOT

Posted by [Sergey Belgourov](#) on Mon, 30 Nov 2009 14:53:38 GMT

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Dear collegus,

the realistic beam at CBM target position will have not only spacial smearing, accessible by

SetBeam(x0, y0, sigmaX, sigmaY),

but also angular divergence. In principle it is not gaussian, taking into account collimators, even not double gaussian. However at the present 2D gaussian angular smearing would be sufficient.

Can I ask cbmroot team to implement such feature into CbmlonGenerator?

Thanks,  
Sergey

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Subject: Re: Beam emittance in CBMROOT

Posted by [Selim Seddiki](#) on Tue, 02 Nov 2010 16:14:17 GMT

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Hello Sergey,

I'm willing to do it, within the next few weeks, since I'm working currently on the impact of nuclear fragments on the inner part of MVD stations.

I've joined some raw specifications of the beam emittance at CBM target for SIS300 from Sebastian Ratschow. I'm intending to use such values, eventually scaled to the magnetic rigity of Au79+ @10AGeV at SIS100.

Hope it gives you some useful informations.

Best regards, Selim

File Attachments

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1) [CBM\\_beam\\_parameters\\_SIS300.doc](#), downloaded 608 times

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