Subject: Beam emittance in CBMROOT
Posted by Sergey Belgourov on Mon, 30 Nov 2009 14:53:38 GMT
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Dear colleagus,

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 gausiian angular smearing would be sufficient.

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

Thanks,
Sergey

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
1) CBM_beam_parameters_SIS300.doc, downloaded 645 times