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Subject: Group velocity for Cherenkov photon propagation in G3/G4

Posted by [Jochen Schwiening](#) on Wed, 26 Jan 2011 10:46:55 GMT

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Hi folks,

I am looking at the time of propagation of Cherenkov photons inside the DIRC radiator bars and see some slightly odd values. This prompts the question how the velocity of the photon is calculated in our framework. Does our VMC properly calculate the group velocity of the Cherenkov photons from the material index tables? Does that happen correctly in both G3 and G4? Do any of you know and maybe know how to check the velocity of the photon of a given wavelength, for instance in our PndDrc.cxx code?

Thanks,  
Jochen

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