Subject: Cherenkov photons die at the mirror with the new external packages (Feb11)
Posted by Maria Patsyuk on Tue, 22 Feb 2011 13:21:36 GMT
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Hello,

after switching to the new external packages (Feb11) Cherenkov photons in the Barrel DIRC simulation started to die on the mirror (see pictures - first is with the old Jan10 packages, the second - with the new Feb11 ones).

I used exactly the same code (PndDrc class and simulation macro) to produce these two pictures, only the version of external packages was different (Jan10 and Feb11).

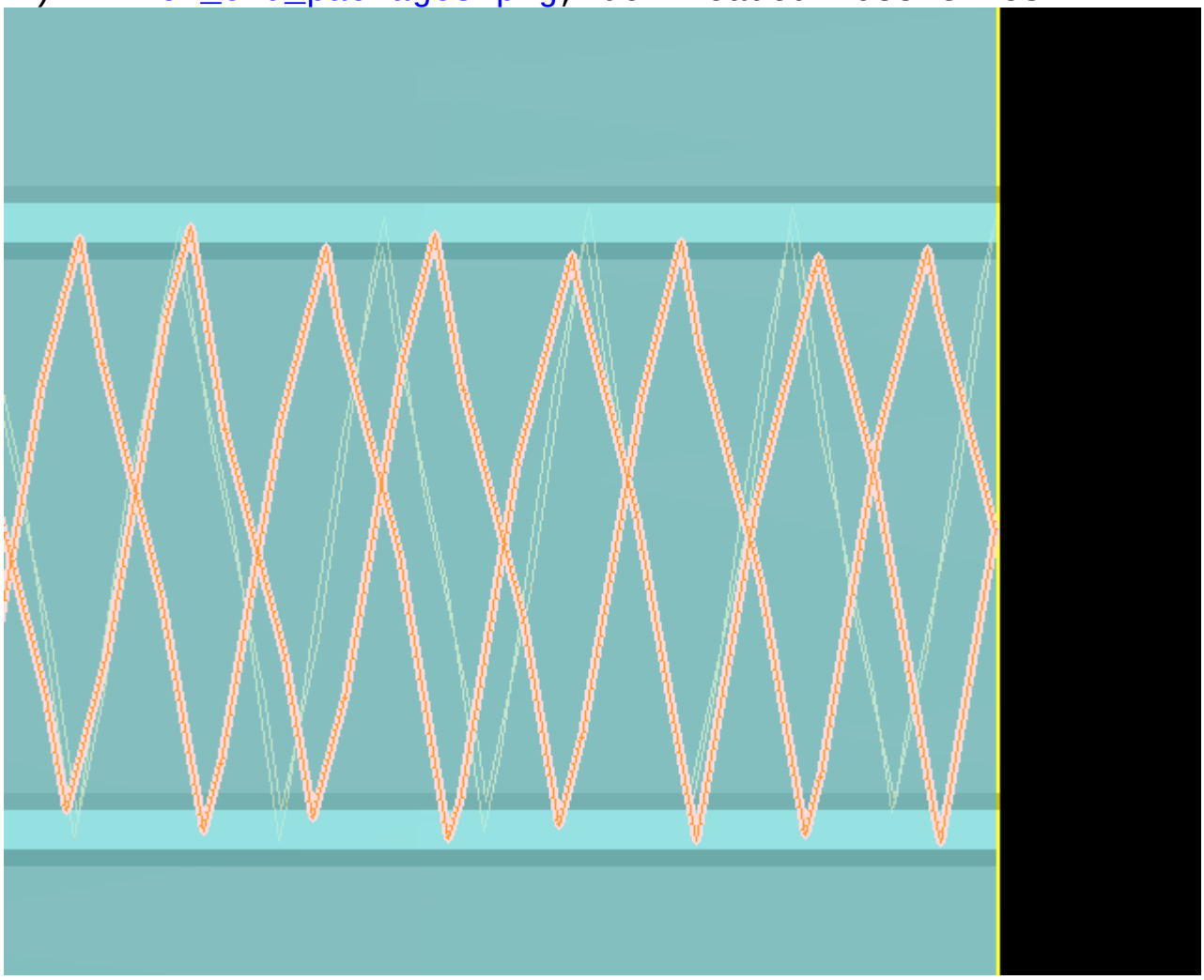
And I also checked the geometry - it has no overlaps.

I would appreciate any hint helping to find out where does it come from.

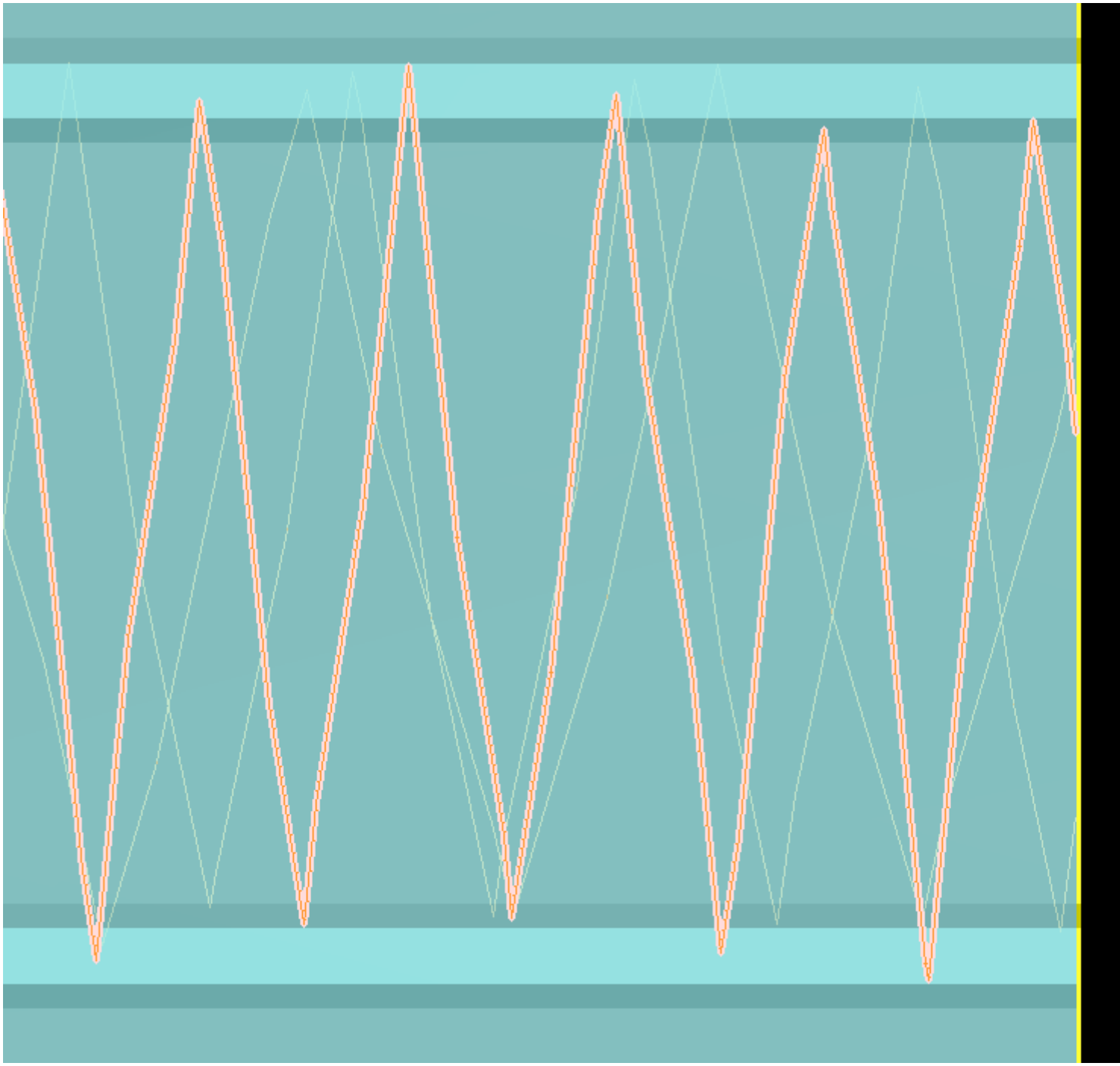
Best regards,
Maria Patsyuk

File Attachments

1) mirror_old_packages.png, downloaded 1038 times



2) mirror_new_packages.png, downloaded 1086 times



Subject: Re: Cherenkov photons die at the mirror with the new external packages (Feb11)
Posted by Jochen Schwiening on Wed, 23 Feb 2011 09:50:01 GMT
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I should add that Geant 3 does not have this problem in the new external packages. As shown in the attached example, hotons there behave as they do in the old packages, both G3 and G4.

Cheers,

Jochen

File Attachments

1) g3_new_ext_mirror.png, downloaded 1305 times

