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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).

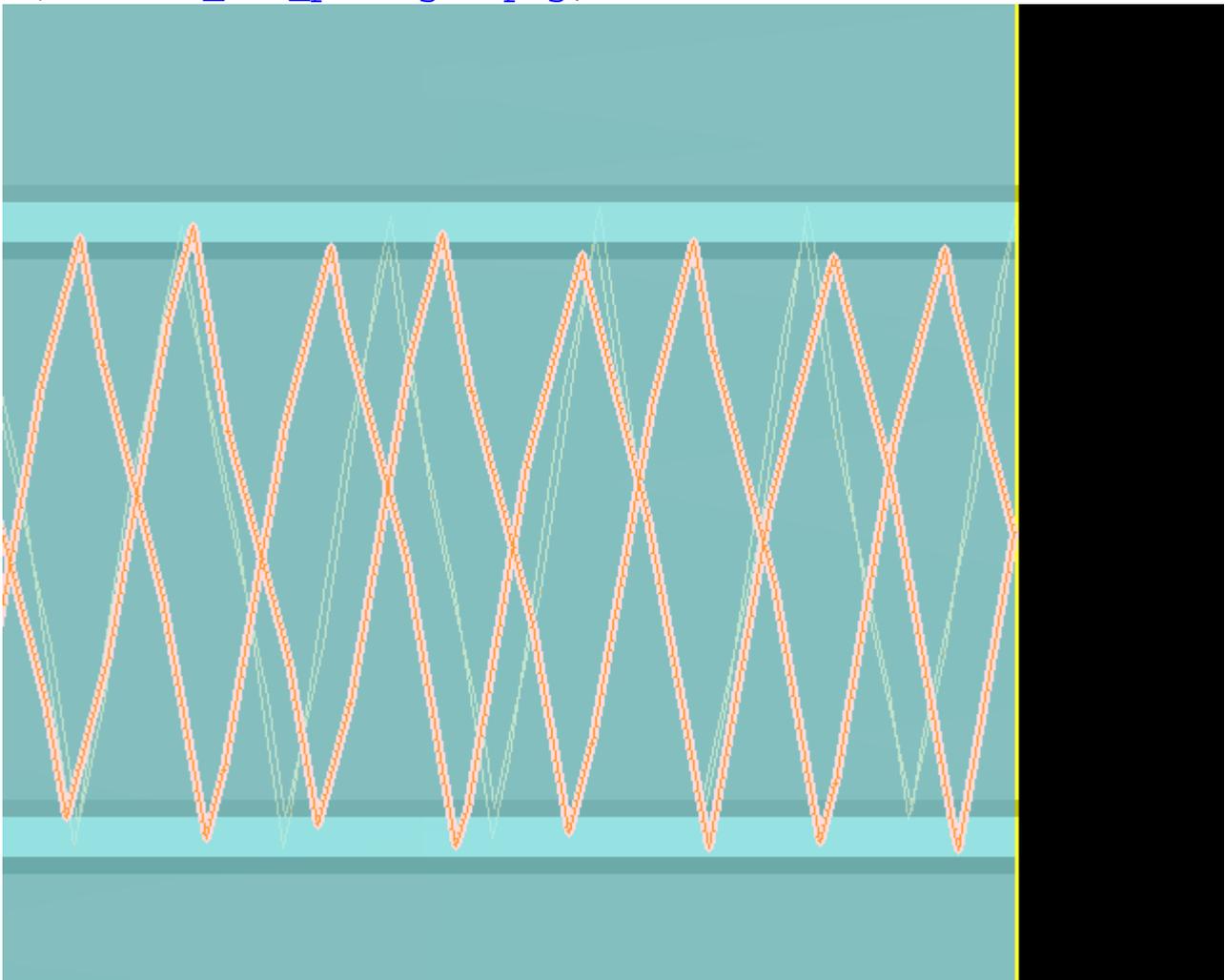
And I also checked the geometry - it has no overlaps.

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

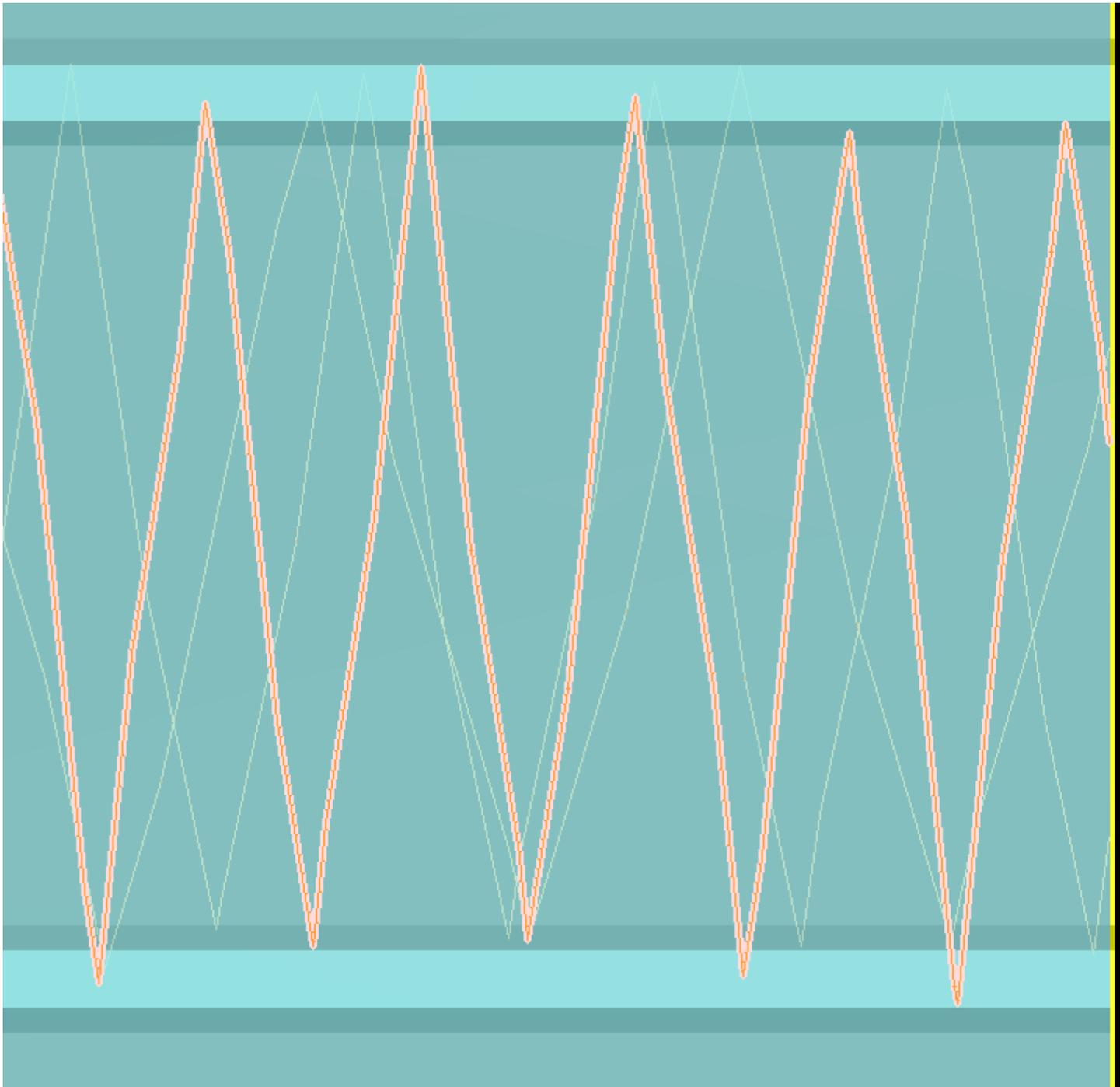
Best regards,  
Maria Patsyuk

#### File Attachments

1) [mirror\\_old\\_packages.png](#), downloaded 800 times



2) [mirror\\_new\\_packages.png](#), downloaded 841 times



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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, photons there behave as they do in the old packages, both G3 and G4.

Cheers,

Jochen

## File Attachments

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1) [g3\\_new\\_ext\\_mirror.png](#), downloaded 953 times

