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Subject: Cherenkov photons generation (FairBoxGenerator) updated!

Posted by [Maria Patsyuk](#) on Wed, 18 Aug 2010 09:03:17 GMT

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Hi,

I'd like to generate cherenkov photons as primaries to study the detector response (DIRC). I tried to use FairBoxGenerator for this purpose (generate particles with PDG = 5000050), but the simulation crashes at generation stage (see errors below).

Dose anybody know any ways to generate cherenkov photons with given properties originating from, say (49., 11., 0.)cm ??

Thanks.

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There was a crash (kSigFloatingException).

This is the entire stack trace of all threads:

=====  
#0 0xffffe410 in \_\_kernel\_vsyscall ()  
#1 0xb6d162f3 in waitpid () from /lib/tls/i686/cmov/libc.so.6  
#2 0xb6cbe669 in strtold\_l () from /lib/tls/i686/cmov/libc.so.6  
#3 0xb6dc5add in system () from /lib/tls/i686/cmov/libpthread.so.0  
#4 0xb79f9c0b in TUnixSystem::Exec (this=0x81017a8,  
    shellcmd=0xa34c0f8 "/misc/cbmssoft/Etch32/jan10/fairsoft/tools/root/etc/gdb-backtrace.sh  
13104 1>&2") at core/unix/src/TUnixSystem.cxx:1978  
#5 0xb79f8f42 in TUnixSystem::StackTrace (this=0x81017a8) at  
core/unix/src/TUnixSystem.cxx:2188  
#6 0xb79fc12a in TUnixSystem::DispatchSignals (this=0x81017a8,  
sig=kSigFloatingException)  
    at core/unix/src/TUnixSystem.cxx:1106  
#7 0xb79fc257 in SigHandler (sig=kSigFloatingException) at  
core/unix/src/TUnixSystem.cxx:350  
#8 0xb79f2024 in sighandler (sig=8) at core/unix/src/TUnixSystem.cxx:3428  
#9 <signal handler called>  
#10 0xaf61a218 in gtreveroot\_ () at gtrak/gtreveroot.F:107  
#11 0xaf7ab2b1 in gutrev\_ () at TGeant3/TGeant3gu.cxx:578  
#12 0xaf79036d in jumpt0\_ (iadr=0xaf8c9b20) at minicern/jumptn.c:74  
#13 0xaf4eb448 in g3trig\_ () at gbase/gtrig.F:62  
#14 0xaf7a2dd3 in TGeant3::Gtrig (this=0x8c13d20) at TGeant3/TGeant3.cxx:3177  
#15 0xaf79a6d0 in TGeant3::ProcessEvent (this=0x8c13d20) at TGeant3/TGeant3.cxx:6300  
#16 0xaf79cc3b in TGeant3::ProcessRun (this=0x8c13d20, nevent=1) at  
TGeant3/TGeant3.cxx:6270  
#17 0xb40a5aeb in FairMCApplication::RunMC (this=0x8b881e8, nofEvents=1)  
    at /u/mpatsyuk/PANDA/trunk/base/FairMCApplication.cxx:238  
#18 0xb40bd28b in FairRunSim::Run (this=0x815e318, NEvents=1, NotUsed=0)  
    at /u/mpatsyuk/PANDA/trunk/base/FairRunSim.cxx:367  
#19 0xb410436e in G\_\_FairDict\_746\_0\_5 (result7=0xbfefe810, funcname=0x88f57e8 "\001",  
    libp=0xbfef41cc, hash=0) at /u/mpatsyuk/PANDA/build\_Etch32/base/FairDict.cxx:11208  
#20 0xb71b630c in Cint::G\_\_ExceptionWrapper (funcp=0xb4104284 <G\_\_FairDict\_746\_0\_5>,  
    result7=0xbfefe810, funcname=0x88f57e8 "\001", libp=0xbfef41cc, hash=0)

at cint/cint/src/Api.cxx:385

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