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Subject: LCDG4 homepage

Posted by [jeremy](#) on Fri, 05 Mar 2004 23:49:17 GMT

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Hello.

The LCDG4 homepage at NICADD:

<http://nicadd.niu.edu/~jeremy/lcd/lcdg4/index.html>

Comments and suggestions are welcome.

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Subject: LCDG4 samples available at nicadd

Posted by [lima](#) on Thu, 27 May 2004 17:06:19 GMT

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Several single-particle and physics samples have been processed through LCDG4 v02-24 using SDJan03 geometry, and are available for general use. The data is available via secure ftp (sftp) to the nicadd server (access instructions below).

The samples available are:

\* single particles:

- 2K each of e,mu,pi,gamma,neutron at theta=90deg with energies of 2, 3, 5, 10, 15, 20, 30, 50 GeV
- 10K K0s -> pi+pi- @ 10GeV, theta=90deg
- 5K K0s -> pi0pi0 @ 10GeV, theta=90deg
- 5K sigma @ 10 GeV, theta=90deg
- 5K lambda @ 1-10GeV, theta=90deg

\* physics:

- 10K ee -> Z -> hadrons @ 91GeV
- 5K ee -> ttbar (incl) @ 350GeV
- 5K ee -> WW -> (qqbar)(any) @ 500GeV
- 2K ee -> ZH -> (bbbar)(any) @ 500GeV, MH=120 GeV
- 2K ee -> ZH -> (bbbar)(any) @ 500GeV, MH=160 GeV

Please use these samples and let us know of any problems, at lima at fnal dot gov.

==== ACCESS INSTRUCTIONS ====

```
% sftp scpuser@k2.nicadd.niu.edu
[password: lcd_2004]
sftp> cd pub/lima/lcdg4/v02-23
sftp> ls          # to see all the files available
sftp> get *ttbar* # for instance
sftp> quit
```

Windows users can use Winscp utility, please visit  
<http://nicadd.niu.edu/~jeremy/admin/scp/> for more details.

Enjoy,  
Guilherme

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Subject: NPHADCalorimeterCell is still not correct  
Posted by [lima](#) on Tue, 28 Sep 2004 20:14:40 GMT  
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Hi,

hep.lcd class NPHADCalorimeterCell is not appropriate for  
geometry SDNPHJun04.

SDNPHJun04 geometry has a non-projective barrel HCal, and PROJECTIVE HCal endcaps.  
NPHADCalorimeterCell points to the non-projective NPCalorimeterCell for both barrel and  
endcaps HCal.

Tony, is this easy to fix?

Thanks,  
Guilherme

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Subject: Re: NPHADCalorimeterCell is still not correct  
Posted by [tonyj](#) on Wed, 29 Sep 2004 15:20:00 GMT  
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Hi Guilherme, i think this should be quite easy to fix, we just need to change ComboCalorimeterCell and NPHADCalorimeterCell to support different segmentation schemes for barrel/endcap.

I am at a conference in switzerland right now, so I might not be able to do it until next week. I think it should just be a case of changing the setTowerID method in ComboCalorimeterCell to also test on barrel/endcap bit, if you want to take a stab yourself before I get time.

Tony

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Subject: momentum units  
Posted by [nijusan](#) on Tue, 14 Dec 2004 18:33:08 GMT  
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Do any of you know off hand what units are used for momentum values in LCDG4. Do they differ from those in JAS3. I remember there being a discrepancy in the units of length between the two.

Thanks  
Brandon

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Subject: Re: momentum units  
Posted by [lima](#) on Fri, 14 Jan 2005 20:53:20 GMT  
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Hi Brandon,  
Sorry for the late response. I just read your question now.

The units are set by the data format, which output format are you using? Momenta and energies are in GeV, on both SIO and LCIO formats, while lengths are in cm (SIO) or mm (LCIO). Jas lengths are in cm.

Hope it helps,  
Guilherme

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Subject: suppressing LCDG4 output  
Posted by [nijusan](#) on Thu, 24 Feb 2005 22:13:16 GMT

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Hello,

Is there any way to turn off ALL the output from LCDG4? Or at least some of it?

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Subject: Re: suppressing LCDG4 output

Posted by [lima](#) on Thu, 24 Feb 2005 22:30:56 GMT

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Dear nijusan,

Which version of LCDG4 are you using?

LCDG4 prints a lot of output during initialization, but is pretty quiet during the event loop. Is this initialization printout which bothers you?

If what you see is a every-event-printout, please check the first line in file debevt.dat, it should read something like "0 0 0".

Thanks,  
Guilherme

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Subject: Re: suppressing LCDG4 output

Posted by [nijusan](#) on Thu, 24 Feb 2005 22:48:26 GMT

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Thanks for the quick reply. I'm using an older version v02-21. I can't find the debevt.dat file that you mentioned. It's not the initialization I want to stop it's the event loop output. Especially the "resetting parent tags:..." statements.

-Brandon

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Subject: Re: suppressing LCDG4 output

Posted by [lima](#) on Thu, 24 Feb 2005 23:13:39 GMT

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Brandon,

Well, version v02-21 is from Apr/2004. Do you have any good reason not to upgrade to a newer version? Several improvements have been implemented since then!

I just checked out v02-21 from our repository, and I can see that the "Resetting parent tags:" printout is indeed commented out in that version. So I believe you (or whoever you got the code from) did uncomment that line. The printout can be commented out in file src/LCDG4McPartManager.cc.

Hope it helps,  
Guilherme

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Subject: LCDG4 v04-00 is released  
Posted by [lima](#) on Tue, 26 Apr 2005 19:51:35 GMT  
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Dear LCDG4 users,

A new version of LCDG4, v04-00, has been released.

Please visit <http://nicadd.niu.edu/cgi-bin/cvsweb.cgi/lcdg4/VERSION> for release notes and corresponding versions.

Documentation is available at <http://nicadd.niu.edu/lcdg4> .

Enjoy, and please let us know if you find any problems, or have any questions.

Guilherme

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Subject: low-energy cutoff for delta rays  
Posted by [tknelson](#) on Thu, 07 Jul 2005 00:43:23 GMT  
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Greetings,

I'm working on a more realistic simulation of silicon for SiD tracking and it would be helpful if I knew (even roughly) the low-energy cutoff for delta-rays that I will see from Geant in the samples we will be generating.

Thanks,  
Tim Nelson  
SLAC

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Subject: Re: low-energy cutoff for delta rays  
Posted by [lima](#) on Thu, 07 Jul 2005 16:05:42 GMT  
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Hi Tim,

By default, LCDG4 uses a 1mm range cut. I am not sure how this translates to low-energy cutoffs for delta rays. I suggest you to talk to Makoto Asai or Dennis Wright, which are local Geant4 experts at SLAC.

Good luck,  
Guilherme

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