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upgrade G4.9.5.txt Page 1/2 Jun 23, 14 14:36 From villaa@physics.umn.edu Mon Jun 23 14:30:58 2014 Date: Mon, 23 Jun 2014 14:30:58 -0500 (CDT) From: Anthony Villano <villaa@physics.umn.edu> To: NMM Veto Shield Working Group -- Christopher David Nedlik <cdnedlik@syr.edu>, Sean Geldert <geld0021@umn.edu>, Anton Empl <anton.empl@gmail.com>, Raymond Bu nker <raybunker@gmail.com>, "Ghimire, Chiranjibi" <Chiranjibi.Ghimire@coyotes.us d.edu>, sxlindsay@ualr.edu, Joseph Jeffers <jeffel74@umn.edu>, Joel Sander <Joel .Sander@usd.edu>, John Greavu <greav011@umn.edu>, Matthew Fritts <fritts@physics .umn.edu>, Priscilla Cushman <prisca@physics.umn.edu>, Raul Hennings-Yeomans <ra ulhennings@qmail.com>, Richard Schnee <rwschnee@phy.syr.edu>, Xixin Liang <xlian g06@syr.edu>, ychen87@syr.edu Subject: upgrade to Geant4.9.5.p02 for lbcfsim Hi Everybody (Matt and Joe, this is probably most useful for you), I upgraded the lbcfsim to be compatible with a new version of Geant4 (new for us, still pretty old compared to the most recent release). The version is Geant4.9.5.p02. I also installed this version on the UMN machines and tested that the simulation works there (not extensively, but it seems to be OK for ~10000 muons with standard geometry). The head version of the git repository is currently tagged as v1.2 and the two tags to version compatible with this Geant4.9.5.p02 are: v1.2 G4.9.5.p02-first I strongly recommend using at least these versions for working with any simulation where one wants to use the --hex option for hexagonally constructed t ubes. Last week Matt and Joe found some inconsistencies with tracking which I seem to have solved by going to G4.9.5.p02. I don't, however, fully understand what the problem(s) were, I will casually look into that unless more tracking issues arise or the tracking is actually not fixed in as good a way as I hope it is. The Geant4.9.5.p02 install on the UMN system is picked up by sourcing the following file: Ssource /local/cdms/geant4.9.5.p02-install/share/Geant4-9.5.2/geant4make/geant4make_wdat a.sh There is an additional procedure related to the linkage of the expat library (-lexpat) which I talk about in the updated version of the README file. Basically what it amounts to is that on the UMN system you must do: \$source umnexpat.sh from the "simulation/" directory of the repository BEFORE compiling the application as normal. Thanks, Anthony

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