stau NLSP sample production

- need to generated signal MC files for stau NLSP analysis, LSP = O(eV) gravitino
  - e+e- -> stau+ stau- -> tau+ tau- LSP LSP
- stau & tau have nonzero lifetime
  - analysis target: ctau = 1 um ~ 1000 um
  - needs to be simulated carefully in Mokka/G4
- problem with stau flight found after running Mokka

STDHEP file

Generated using latest lcsoft JSF/physsim/StdHep on jlclogin2
STUSTUStudy package

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( 1) IDHEP= 1000015 JMOHEP= 0, 0 JDAHEP= 3, 4 PHEP=( 1.51e+02, -1.62e+01,  1.58e+02,  2.50e+02) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 2) IDHEP=-1000015 JMOHEP= 0, 0 JDAHEP= 5, 6 PHEP=(-1.51e+02,  1.62e+01, -1.57e+02,  2.49e+02) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 3) IDHEP= 1000022 JMOHEP= 1, 0 JDAHEP= 0,-1 PHEP=(-1.14e+01, -4.33e-01, -1.03e+01,  1.55e+01) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 4) IDHEP=      15 JMOHEP= 1, 0 JDAHEP= 0,-1 PHEP=( 1.62e+02, -1.57e+01,  1.68e+02,  2.34e+02) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 5) IDHEP= 1000022 JMOHEP= 2, 0 JDAHEP= 0,-1 PHEP=(-1.51e+02, -1.47e+00, -8.24e+01,  1.72e+02) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 6) IDHEP=     -15 JMOHEP= 2, 0 JDAHEP= 0,-1 PHEP=( 4.71e-01,  1.76e+01, -7.50e+01,  7.71e+01) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 7) IDHEP= 1000015 JMOHEP= 5, 0 JDAHEP= 0, 0 PHEP=( 1.52e+02, -1.62e+01,  1.58e+02,  2.50e+02) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 8) IDHEP=-1000015 JMOHEP= 4, 0 JDAHEP= 0, 0 PHEP=(-1.50e+02,  1.62e+01, -1.57e+02,  2.49e+02) VHEP=( 0.00e+00,  0.00e+00,  0.00e+00)
( 9) IDHEP= 1000022 JMOHEP= 7, 0 JDAHEP= 0, 0 PHEP=(-1.14e+01, -4.33e-01, -1.03e+01,  1.54e+01) VHEP=( 3.00e-04, -3.20e-05,  3.13e-04)
(10) IDHEP=      15 JMOHEP= 7, 0 JDAHEP=11,12 PHEP=( 1.63e+02, -1.57e+01,  1.68e+02,  2.35e+02) VHEP=( 3.00e-04, -3.20e-05,  3.13e-04)
(11) IDHEP=      16 JMOHEP=10, 0 JDAHEP= 0, 0 PHEP=( 6.46e+01, -6.90e+00,  6.72e+01,  9.35e+01) VHEP=( 5.51e-02, -5.32e-03,  5.69e-02)
(12) IDHEP=    -213 JMOHEP=10, 0 JDAHEP=13,14 PHEP=( 9.85e+01, -8.84e+00,  1.01e+02,  1.42e+02) VHEP=( 5.51e-02, -5.32e-03,  5.69e-02)
(13) IDHEP=    -211 JMOHEP=12, 0 JDAHEP= 0, 0 PHEP=( 2.17e+01, -1.78e+00,  2.26e+01,  3.14e+01) VHEP=( 5.51e-02, -5.32e-03,  5.69e-02)
(14) IDHEP=     111 JMOHEP=12, 0 JDAHEP=15,16 PHEP=( 7.68e+01, -7.06e+00,  7.86e+01,  1.10e+02) VHEP=( 5.51e-02, -5.32e-03,  5.69e-02)
(15) IDHEP=      22 JMOHEP=14, 0 JDAHEP= 0, 0 PHEP=( 2.47e+00, -2.12e-01,  2.50e+00,  3.52e+00) VHEP=( 5.60e-02, -5.40e-03,  5.78e-02)
(16) IDHEP=      22 JMOHEP=14, 0 JDAHEP= 0, 0 PHEP=( 7.43e+01, -6.85e+00,  7.61e+01,  1.07e+02) VHEP=( 5.60e-02, -5.40e-03,  5.78e-02)
(17) IDHEP= 1000022 JMOHEP= 8, 0 JDAHEP= 0, 0 PHEP=(-1.51e+02, -1.47e+00, -8.24e+01,  1.72e+02) VHEP=(-2.03e-03,  2.19e-04, -2.13e-03)
(18) IDHEP=     -15 JMOHEP= 8, 0 JDAHEP=19,21 PHEP=( 7.41e-01,  1.76e+01, -7.50e+01,  7.71e+01) VHEP=(-2.03e-03,  2.19e-04, -2.13e-03)
(19) IDHEP=     -16 JMOHEP=18, 0 JDAHEP= 0, 0 PHEP=( 4.00e-01,  1.60e+00, -6.32e+00,  6.54e+00) VHEP=(-6.17e-04,  3.39e-02, -1.45e-01)
(20) IDHEP=     -13 JMOHEP=18, 0 JDAHEP= 0, 0 PHEP=( 2.51e-01,  3.09e+00, -1.52e+01,  1.55e+01) VHEP=(-6.17e-04,  3.39e-02, -1.45e-01)
(21) IDHEP=      14 JMOHEP=18, 0 JDAHEP= 0, 0 PHEP=( 8.94e-02,  1.30e+01, -5.35e+01,  5.50e+01) VHEP=(-6.17e-04,  3.39e-02, -1.45e-01)
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Stau has nonzero lifetime
-> Tau and LSP particles are (correctly) generated at a displaced vertex

Mokka/Marlin output

Using ilcsoft v01-11 @ kekcc to run Mokka and Marlin
dumpevent command shows:

Tau, LSP produced at (0,0,0)
-> Stau does not fly !!

tau decay length does not
match specified value

verification of b-baryons

b-baryons fly properly with the same version of code.
maybe the status code is the problem?? still investigating this issue...