Subject: G4MagIntegratorDriver error
Posted by Tobias Stockmanns on Wed, 21 Jan 2009 14:35:00 GMT

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Dear PandaRooters,

since my last update of pandaRoot from SVN I am getting the following error-message when I run runMvdSim.C before my root system stops working:

G4MagIntegratorDriver::OneGoodStep: Stepsize underflow in Stepper
 Step's start x=7.74619 and end x= 7.74619 are equal !!
 Due to step-size= 2.28754e-16 . Note that input step was 0.228754

This happens for various event generators and sub-detectors.

With GEANT3 everything seems to run smoothly.

Has anyone an idea what is going wrong?

Thanks

Tobias

P.S.: At a different run I got the following more complete error message:
G4MagIntegratorDriver::OneGoodStep: Stepsize underflow in Stepper
 Step's start x=1.05216 and end x= 1.05216 are equal !!
 Due to step-size= 2.10975e-17 . Note that input step was 0.0210975
 G4ParticleChange::CheckIt : the Momentum Change is not unit vector !!
 Difference: 1
 G4ParticleChange::CheckIt

      G4ParticleChange Information

     # of 2ndaries   :   0

     Energy Deposit (MeV):   0
     Non-ionizing Energy Deposit (MeV):   0
     Track Status   :   Alive
     True Path Length (mm) :   1.07
     Stepping Control   :   0
     Mass (GeV) :   0
     Charge (eplus) :   0
     MagneticMoment :   0
        : =   0*[e hbar]/[2 m]
     Position - x (mm) :   658
     Position - y (mm) :   740
     Position - z (mm) :   3.4e+03
     Time (ns)   :   13.4
     Proper Time (ns) :   0.0617
     Momentum Direct - x :   0
     Momentum Direct - y :   0
     Momentum Direct - z :   0

Kinetic Energy (MeV):   22.7
Polarization - x   :   0
Polarization - y   :   0
Polarization - z   :   0
Touchable (pointer) :   0xdfd1cd8

*** G4Exception : 200
    issued by : G4ParticleChange::CheckIt
momentum, energy, and/or time was illegal
*** Event Must Be Aborted