
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
```

```
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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
