

Review of Open Problem Reports

Geometry WG

Transportation & Navigation

- [#2047](#)
 - *The particles stop in world volume by G4UserSpecialCuts process without depositing their kinetic energy*
 - Particles by a special cuts process are stopped, when a particle kinetic energy goes beyond the energy limit (as in G4UserLimits), without depositing the remaining kinetic energy. This happens when the special cuts process is invoked in the world volume. A patch is provided reproducing the problem with the basic B4a example. K.Amako believes the problem is in the Transportation when trying to transport a particle with zero step length. [Last reply: April 2018](#)

Magnetic field

- [#2137](#)

- *hstep=0 Error in G4MagInt_Driver::AccurateAdvance*
- When generating particle gun of 1GeV muons in Belle II software framework, these errors are being produced:

```
[ERROR] In G4MagInt_Driver::AccurateAdvance(),  
      GeomField1001: Proposed step is zero; hstep = 0
```

The problem is reported to happen with release 10.1.

No feedback from user since 2021. To close?? [Last reply: December 2021](#)

- [#2505](#)

- *Crash in CMS production with Geant4 10.7.p02*
- Failure in `G4MultiLevelLocator::EstimateIntersectionPoint()` in advancing propagation and leading to a proposed negative step and event abortion in `G4IntegrationDriver::AccurateAdvance()`
- Under investigation. [Last reply: August 2022](#)