

You have successfully registered the following model factories.

Registered model factories:

```
generic
drawByAttribute
drawByCharge
drawByOriginVolume
drawByParticleID
drawByEncounteredVolume
```

Registered models:

None

Registered filter factories:

```
A attributeFilter
chargeFilter
originVolumeFilter
particleFilter
encounteredVolumeFilter
```

Registered filters:

None

You have successfully registered the following user vis actions.

Run Duration User Vis Actions: none

End of Event User Vis Actions: none

End of Run User Vis Actions: none

Some /vis commands (optionally) take a string to specify colour.

"/vis/list" to see available colours.

You have successfully registered the following user vis actions.

Run Duration User Vis Actions: none

End of Event User Vis Actions: none

End of Run User Vis Actions: none

Some /vis commands (optionally) take a string to specify colour.

"/vis/list" to see available colours.

```
A GenericIon,          H,          H2O,          H2O2
      H3O,          H_2,          He3,          OH
      Ps-1s,        Ps-2s,        alpha,        alpha+
      anti_He3,    anti_alpha,  anti_deuteron, anti_doublehyperH4
anti_doublehyperdblneutron, anti_hyperH4, anti_hyperHe5, anti_hyperalpha
anti_hypertriton,  anti_lambda, anti_neutron,  anti_nu_e
      anti_nu_mu,  anti_proton, anti_triton,   carbon
      chargedgeantino, deuteron, doublehyperH4, doublehyperdblneutron
      e+,          e-,          e_aq,        gamma
      geantino,   helium,     hydrogen,    hyperH4
      hyperHe5,   hyperalpha, hypertriton, iron
      kaon+,      kaon-,      lambda,      mu+
      mu-,        neutron,    nitrogen,    nu_e
      nu_mu,      oxygen,     pi+,         pi-
      pi0,        proton,     silicon,     triton

      phot,      compt,      conv,        Rayl
```

```

pi0,          pi0ion,          silicon,          lithium
phot,         compt,          conv,           Rayl
msc,          eIoni,           eBrem,         ePairProd
CoulombScat, msc,          eIoni,         eBrem
annihil,     CoulombScat, msc,          ionIoni
nuclearStopping, msc,          muIoni,        muBrems
muPairProd,  CoulombScat, muIoni,        msc
hIoni,       hBrems,        hPairProd,     CoulombScat
hIoni,       msc,          hIoni,         hBrems
hPairProd,   CoulombScat, hIoni,         msc
hIoni,       hBrems,        hPairProd,     CoulombScat
msc,         hIoni,         CoulombScat,   hIoni
hIoni,       msc,          ionIoni,        msc
ionIoni,     hIoni,         hIoni,         hIoni
hIoni,       Transportation,e-_G4DNAElectronSolvation, DNABrownianTransportation
G4DNAElectronHoleRecombination, H2O_DNAMolecularDecay, DNABrownianTransportation, DNABrownianTransportation
DNABrownianTransportation, DNABrownianTransportation, DNABrownianTransportation

### === Deexcitation model UAtomDeexcitation is activated for 4 regions:

```

```

ionIoni,      hIoni,          hIoni,          hIoni
hIoni,        Transportation,e-_G4DNAElectronSolvation, DNABrownianTransportation
G4DNAElectronHoleRecombination, H2O_DNAMolecularDecay, DNABrownianTransportation, DNABrownianTransportation
DNABrownianTransportation, DNABrownianTransportation, DNABrownianTransportation

### === Deexcitation model UAtomDeexcitation is activated for 4 regions:
DefaultRegionForTheWorld 1 0 0
Soma 1 0 0
Dendrites 1 0 0
Axon 1 0 0
### === Auger flag: 1
### === Ignore cuts flag: 1
A G4WT0 > phot,         compt,          conv,           Rayl
G4WT2 > phot,         compt,          conv,           Rayl
G4WT1 > phot,         compt,          conv,           Rayl
G4WT0 > msc,          eIoni,         eBrem,         ePairProd
G4WT2 > msc,          eIoni,         eBrem,         ePairProd
G4WT1 > msc,          eIoni,         eBrem,         ePairProd
G4WT0 > CoulombScat, msc,          eIoni,         eBrem
G4WT2 > CoulombScat, msc,          eIoni,         eBrem
G4WT1 > CoulombScat, msc,          eIoni,         eBrem
G4WT0 > annihil,     CoulombScat,   msc,           ionIoni
G4WT2 > annihil,     CoulombScat,   msc,           ionIoni

```

```

G4WT0 > phot,         compt,          conv,           Rayl
G4WT2 > phot,         compt,          conv,           Rayl
G4WT1 > phot,         compt,          conv,           Rayl
G4WT0 > msc,          eIoni,         eBrem,         ePairProd
G4WT2 > msc,          eIoni,         eBrem,         ePairProd
G4WT1 > msc,          eIoni,         eBrem,         ePairProd
G4WT0 > CoulombScat, msc,          eIoni,         eBrem
G4WT2 > CoulombScat, msc,          eIoni,         eBrem
G4WT1 > CoulombScat, msc,          eIoni,         eBrem
G4WT0 > annihil,     CoulombScat,   msc,           ionIoni
G4WT2 > annihil,     CoulombScat,   msc,           ionIoni
G4WT1 > annihil,     CoulombScat,   msc,           ionIoni
A G4WT0 > nuclearStopping, msc,          muIoni,        muBrems
G4WT2 > nuclearStopping, msc,          muIoni,        muBrems
G4WT1 > nuclearStopping, msc,          muIoni,        muBrems
G4WT0 > muPairProd,  CoulombScat,   muIoni,        msc
G4WT2 > muPairProd,  CoulombScat,   muIoni,        msc
G4WT1 > muPairProd,  CoulombScat,   muIoni,        msc
G4WT0 > hIoni,       hBrems,        hPairProd,     CoulombScat
G4WT2 > hIoni,       hBrems,        hPairProd,     CoulombScat
G4WT1 > hIoni,       hBrems,        hPairProd,     CoulombScat
G4WT0 > hIoni,       msc,          hIoni,         hBrems
G4WT2 > hIoni,       msc,          hIoni,         hBrems
G4WT1 > hIoni,       msc,          hIoni,         hBrems
G4WT0 > hPairProd,   CoulombScat,   hIoni,         msc
G4WT2 > hPairProd,   CoulombScat,   hIoni,         msc
G4WT1 > hPairProd,   CoulombScat,   hIoni,         msc
G4WT0 > hIoni,       hBrems,        hPairProd,     CoulombScat

```

```

G4WT1 > hIoni, hBrems, hPairProd, CoulombScat
G4WT0 > hIoni, msc, hIoni, hBrems
G4WT2 > hIoni, msc, hIoni, hBrems
G4WT1 > hIoni, msc, hIoni, hBrems
G4WT0 > hPairProd, CoulombScat, hIoni, msc
G4WT2 > hPairProd, CoulombScat, hIoni, msc
G4WT1 > hPairProd, CoulombScat, hIoni, msc
G4WT2 > hIoni, hBrems, hPairProd, CoulombScat
G4WT1 > hIoni, hBrems, hPairProd, CoulombScat
G4WT0 > msc, hIoni, CoulombScat, hIoni
G4WT2 > msc, hIoni, CoulombScat, hIoni
G4WT1 > msc, hIoni, CoulombScat, hIoni
G4WT0 > hIoni, msc, ionIoni, msc
G4WT2 > hIoni, msc, ionIoni, msc
G4WT1 > hIoni, msc, ionIoni, msc
G4WT0 > ionIoni, hIoni, hIoni, hIoni
G4WT2 > ionIoni, hIoni, hIoni, hIoni
G4WT1 > ionIoni, hIoni, hIoni, hIoni
G4WT0 > hIoni, Transportation,e-_G4DNAElectronSolvation, DNABrownianTransportation
G4WT2 > hIoni, Transportation,e-_G4DNAElectronSolvation, DNABrownianTransportation
G4WT0 > G4DNAElectronHoleRecombination, H2O_DNAMolecularDecay, DNABrownianTransportation, DNABrownianTrans$
G4WT1 > hIoni, Transportation,e-_G4DNAElectronSolvation, DNABrownianTransportation
G4WT2 > G4DNAElectronHoleRecombination, H2O_DNAMolecularDecay, DNABrownianTransportation, DNABrownianTrans$
G4WT0 > DNABrownianTransportation, DNABrownianTransportation, DNABrownianTransportation
G4WT1 > G4DNAElectronHoleRecombination, H2O_DNAMolecularDecay, DNABrownianTransportation, DNABrownianTrans$
G4WT2 > DNABrownianTransportation, DNABrownianTransportation, DNABrownianTransportation
G4WT1 > DNABrownianTransportation, DNABrownianTransportation, DNABrownianTransportation
G4VisManager: Using G4TrajectoryDrawByCharge as fallback trajectory model.
See commands in /vis/modeling/trajectories/ for other options.
### Run 0 starts.

```

```

G4WT1 > G4DNAElectronHoleRecombination, H2O_DNAMolecularDecay, DNABrownianTransportation, DNABrownianTrans$
G4WT2 > DNABrownianTransportation, DNABrownianTransportation, DNABrownianTransportation
G4WT1 > DNABrownianTransportation, DNABrownianTransportation, DNABrownianTransportation
G4VisManager: Using G4TrajectoryDrawByCharge as fallback trajectory model.
See commands in /vis/modeling/trajectories/ for other options.
### Run 0 starts.

```

```

=====  

--> G4TaskRunManager::CreateAndStartWorkers() --> Creating 300 tasks with 300 events/task...  

=====

```

```

G4WT0 > ### Run 0 starts on worker thread 0.
G4WT2 > ### Run 0 starts on worker thread 2.
G4WT1 > ### Run 0 starts on worker thread 1.
G4WT1 > --> Event 600 starts with initial seeds (6383967,15098958).
G4WT0 > --> Event 0 starts with initial seeds (13049039,61775110).
G4WT2 > --> Event 300 starts with initial seeds (57661392,63196147).
G4WT1 > End of tracking primary particle, its final energy is :0 eV
G4WT0 > End of tracking primary particle, its final energy is :0 eV
G4WT2 > End of tracking primary particle, its final energy is :0 eV
G4WT1 > Physics stage ends
G4WT1 > *** G4Scheduler starts processing
G4WT1 > *** G4Scheduler did not start because no track was found to be processed
G4WT1 > _____
G4WT0 > Physics stage ends
G4WT0 > *** G4Scheduler starts processing
G4WT0 > *** G4Scheduler did not start because no track was found to be processed
G4WT0 > _____
G4WT2 > Physics stage ends
G4WT2 > *** G4Scheduler starts processing
G4WT2 > *** G4Scheduler did not start because no track was found to be processed
G4WT2 > _____
G4WT1 > End of tracking primary particle, its final energy is :0 eV
G4WT0 > End of tracking primary particle, its final energy is :0 eV

```

```
G4WT2 > Physics stage ends
G4WT2 > *** G4Scheduler starts processing
G4WT2 > *** G4Scheduler did not start because no track was found to be processed
G4WT2 >
G4WT1 > End of tracking primary particle, its final energy is :0 eV
G4WT0 > End of tracking primary particle, its final energy is :0 eV
G4WT2 > End of tracking primary particle, its final energy is :12.533 MeV
G4WT1 > Physics stage ends
G4WT1 > *** G4Scheduler starts processing
G4WT1 > *** G4Scheduler did not start because no track was found to be processed
G4WT1 >
G4WT2 > Physics stage ends
G4WT2 > *** G4Scheduler starts processing
G4WT2 > *** G4Scheduler did not start because no track was found to be processed
G4WT2 >
G4WT0 > Physics stage ends
G4WT0 > *** G4Scheduler starts processing
G4WT0 > *** G4Scheduler did not start because no track was found to be processed
G4WT0 >
G4WT1 > End of tracking primary particle, its final energy is :0 eV
G4WT2 > End of tracking primary particle, its final energy is :0 eV
G4WT0 > End of tracking primary particle, its final energy is :0 eV
G4WT1 > Physics stage ends
G4WT1 > *** G4Scheduler starts processing
G4WT1 > *** G4Scheduler did not start because no track was found to be processed
```

```
G4WT0 >
G4WT1 > End of tracking primary particle, its final energy is :1.0636 MeV
G4WT0 > End of tracking primary particle, its final energy is :55.208 MeV
G4WT2 > Physics stage ends
G4WT2 > *** G4Scheduler starts processing
G4WT2 > *** G4Scheduler did not start because no track was found to be processed
G4WT2 >
G4WT0 > Physics stage ends
G4WT0 > *** G4Scheduler starts processing
G4WT0 > *** G4Scheduler did not start because no track was found to be processed
G4WT0 >
G4WT2 > End of tracking primary particle, its final energy is :0 eV
G4WT1 > Physics stage ends
G4WT1 > *** G4Scheduler starts processing
G4WT1 > *** G4Scheduler did not start because no track was found to be processed
G4WT1 >
G4WT0 > End of tracking primary particle, its final energy is :0 eV
G4WT1 > End of tracking primary particle, its final energy is :32.96 MeV
G4WT0 > Physics stage ends
G4WT0 > *** G4Scheduler starts processing
```

```
G4WT2 >
G4WT2 > End of tracking primary particle, its final energy is :10.828 MeV
G4WT1 > Physics stage ends
G4WT1 > *** G4Scheduler starts processing
G4WT1 > *** G4Scheduler did not start because no track was found to be processed
G4WT1 >
G4WT1 > --> Event 1200 starts with initial seeds (81249407,57561016).
G4WT0 > Physics stage ends
G4WT0 > *** G4Scheduler starts processing
G4WT0 > *** G4Scheduler did not start because no track was found to be processed
G4WT0 >
G4WT1 > End of tracking primary particle, its final energy is :0 eV
```

