```
Track.hh
 Dec 28, 14 16:47
                                                                Page 1/2
#ifndef Track_h
#define Track_h 1
#include "globals.hh"
#include <vector>
#include "G4VHit.hh"
#include "G4THitsCollection.hh"
#include "G4Allocator.hh"
#include "G4ThreeVector.hh"
#include "G4HCofThisEvent.hh"
class Track : public G4VHit
public:
 Track ();
 Track (G4int aTrackId, G4int aPDG,
       G4ThreeVector aPosition, G4ThreeVector aMomentumDirection, G4double the
KinEnergy,
       G4int aMotherTrackId, G4String aVertexVolumeName, G4String aCreatorProces
sName);
 ~Track ();
 Track (const Track&);
 const Track& operator= (const Track&);
 int operator== (const Track&) const;
 inline void* operator new(size_t);
 inline void operator delete(void*);
 inline G4int
                     GetTrackId(){return theTrackId;}
                     GetPDGCode(){return thePDG;}
 inline G4int
 inline G4ThreeVector GetPosition(){return thePosition;}
 inline G4double
                     GetKinEnergy(){return theKinEnergy;}
 inline G4ThreeVector GetMomentumDirection(){return theMomentumDirection;}
 inline G4int
                     GetMotherTrackId(){return theMotherTrackId;}
 inline G4String
                     GetVertexVolumeName() {return theVertexVolumeName; }
                     GetCreatorProcessName() {return theCreatorProcessName;}
 inline G4String
 void Draw () {};
 void Print () {};
void clear () {};
 void DrawAll () {}
 void PrintAll () {};
private:
 G4int
               theTrackId;
 G4int
               thePDG;
                                  //Using this code we can in ROOT to the bu
ilt in table and create a
                                  //TParticlePDG that contain particleMass p
articleCharge
 G4ThreeVector thePosition;
 G4ThreeVector theMomentumDirection;
 G4double
               theKinEnergy;
 G4int
               theMotherTrackId;
 G4String
               theVertexVolumeName;
 G4String
               theCreatorProcessName;
typedef G4THitsCollection<Track> TracksCollection;
extern G4Allocator<Track> TrackAllocator;
```