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TrackerSD.hh
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#ifndef TrackerSD h
#define TrackerSD h 1
#include "G4VSensitiveDetector.hh"
#include "TrackerHit.hh"
#include <map>
class G4Step;
class G4HCofThisEvent;
class G4TouchableHistory;
class TrackerSD : public G4VSensitiveDetector
public:
 TrackerSD(G4String name);
 ~TrackerSD();
 void Initialize(G4HCofThisEvent* HCE);
 G4bool ProcessHits(G4Step* aStep,G4TouchableHistory* ROhist);
 G4bool NewHit(G4Step* aStep);
 int SetDetectorId(G4Step* aStep);
 void CreateHit(G4Step* aStep);
 void UpdateHit(G4Step* aStep);
 void EndOfEvent(G4HCofThisEvent* HCE);
 void clear();
 void DrawAll();
 void PrintAll();
private:
 TrackerHitsCollection* TkHitCollection;
 int verboseLevel;
 std::map<int,int> HitMap;
 int detId;
 int trackID;
 static const int tkIdOffset = 12;
 static const int detIdMask = 0xFFF;
 static const int tkIdMask = 0xFFFFFFF;
};
```

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