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VetoSD.hh
 Jan 09, 15 10:50
                                                                     Page 1/2
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11
#ifndef VetoSD_h
#define VetoSD h 1
#include "G4VSensitiveDetector.hh"
#include "CaloHit.hh"
#include "VetoSDMessenger.hh"
class G4Step;
class G4HCofThisEvent;
class G4TouchableHistory;
class VetoSD : public G4VSensitiveDetector
public:
 VetoSD(G4String name);
 ~VetoSD();
 void Initialize(G4HCofThisEvent*HCE);
 G4int GetDetID(G4Step*aStep);
 G4bool ProcessHits(G4Step*aStep,G4TouchableHistory*ROhist);
 void EndOfEvent(G4HCofThisEvent*HCE);
 void clear();
 void DrawAll();
 void PrintAll();
 inline void SetUseBirksLaw(G4bool aVal) {useBirks=aVal;}
private:
 G4double BirksAttenuation(const G4Step* aStep);
 VetoSDMessenger* fMessenger;
 CaloHitsCollection *VetoCollection;
 G4int verboseLevel;
 std::map<int,int> VetoID;
 G4bool useBirks;
 G4double birk1scint;
 G4double birk2scint;
 G4double birk3scint;
};
#endif
```

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	Jan 09, 15 10:50	VetoSD.hh	Page 2/2
1			
1			
1	1		