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CalorimeterConstructionConfig6.hh
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  ******************
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/// \file electromagnetic/TestEm3/include/CalorimeterConstructionConfig6.hh
/// \brief Definition of the CalorimeterConstructionConfig6 class
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// $Id$
//
#ifndef CalorimeterConstructionConfig6 h
#define CalorimeterConstructionConfig6 h 1
#include "globals.hh"
#include <vector>
class G4IntersectionSolid;
class G4SubtractionSolid;
class G4Box;
class G4Trap;
class G4Cons;
class G4UnionSolid;
class G4LogicalVolume;
class G4VPhysicalVolume;
class HEPDSWMaterial;
class G4UniformMagField;
class DetectorMessenger;
class CalorimeterConstructionConfig6
public:
  CalorimeterConstructionConfig6();
 ~CalorimeterConstructionConfig6();
 inline void SetVetoMaterial(G4String aMat){vetoMaterial=aMat;}
 inline void SetCaloMaterial(G4String aMat1,G4String aMat2){scintMaterial=aMat1
;crystalMaterial=aMat2;}
 inline void SetPoronMaterial(G4String aMat){poronMaterial=aMat;}
 inline void SetCarbonFiberMaterial(G4String aMat){cfiberMaterial=aMat;}
 inline void SetHoneyCombMaterial(G4String aMat) {honeycombMaterial=aMat;'}
 inline void SetTeflonMaterial(G4String aMat){teflonMaterial=aMat;}
 void Builder(G4VPhysicalVolume* motherVolume);
```

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private:
 void ComputeObjectsPositioning();
  G4String scintMaterial;
  G4String carbonFiberMaterial;
  G4String poronMaterial;
          fS1ScintNumber;
  G4 int.
  G4double fS1 X;
 G4double fS1_Y;
  G4double fS1 Z;
  G4double fS1SuppBottom_X;
  G4double fS1SuppBottom_Y;
  G4double fS1SuppBottom_Z;
  G4double fS1SuppHoleBar_X;
  G4double fS1SuppHoleBar_Y;
  G4double fS1SuppHoleBar_Z;
  G4double fS1SuppBar_X;
  G4double fS1SuppBar_Y;
  G4double fS1SuppBar_Z;
  G4double fS1SuppTopBase_X;
  G4double fS1SuppTopBase Y;
  G4double fS1SuppTopBase_Z;
  G4double fS1SuppTopHole X;
  G4double fS1SuppTopHole_Y;
  G4double fS1SuppTopHole_Z;
  G4double fS1SuppThinBar X;
  G4double fS1SuppThinBar_Y;
  G4double fS1SuppThinBar_Z;
  G4double fS1SuppThinBarBack_X;
  G4double fS1SuppThinBarBack_Y; G4double fS1SuppThinBarBack_Z;
  G4double fS1SuppPoron_X;
  G4double fS1SuppPoron_Y;
  G4double fS1SuppPoron_Z;
  G4double fS1ScintContainer_X;
  G4double fS1ScintContainer_Y;
  G4double fS1ScintContainer Z;
  G4double fS1Scint_X;
  G4double fS1Scint_Y;
 G4double fS1Scint_Z;
  G4double fSolidS1SuppFront_X;
  G4double fSolidS1SuppFront_Y;
  G4double fSolidS1SuppFront_Z;
                     fNbOfScintLayers;
 G4int fNbOfReplicatedScintLayers;
  G4String
                     vetoMaterial;
  G4String
                     caloMaterial;
  G4String
                     crvstalMaterial;
  G4String
                     cfiberMaterial;
 G4String
                     honeycombMaterial;
  G4String
                     teflonMaterial;
  G4double fCaloLayer_X;
```

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G4double G4double	fCaloLayer_Y; fCaloLayer_Z;	
G4double G4double G4double	fCaloLastLayer_Y;	
G4double	fCalo_X; fCalo_Y; fCalo_Z;	
G4double	fScint_X; fScint_Y; fScint_Z;	
	<pre>fCrystal_X; fCrystal_Y; fCrystal_Z;</pre>	
G4double	<pre>fCFBlockContainerExt_X; fCFBlockContainerExt_Y; fCFBlockContainerExt_Z;</pre>	
G4double	<pre>TeflonContainerExt_X; TeflonContainerExt_Y; TeflonContainerExt_Z;</pre>	
G4double	<pre>fTeflonLYSO_X; fTeflonLYSO_Y; fTeflonLYSO_Z;</pre>	
G4double	fCrystalBlock_X; fCrystalBlock_Y; fCrystalBlock_Z;	
G4double	fCFCrystalPanelUp_Z;	
G4double	<pre>fCFCrystalPanelDown_X; fCFCrystalPanelDown_Y; fCFCrystalPanelDown_Z;</pre>	
G4double	fCFCrystalPanelDown2_X; fCFCrystalPanelDown2_Y; fCFCrystalPanelDown2_Z;	
G4double	<pre>fCFCrystalHole_X; fCFCrystalHole_Y; fCFCrystalHole_Z;</pre>	
G4double G4double G4double	<pre>fCylinderRadiusMax1; fCylinderRadiusMin1; fCylinderRadiusMax2; fCylinderRadiusMin2; fCylinderZ;</pre>	
G4double G4double G4double		
G4double G4double G4double	fCrystalBlockRawContainer_Y;	
G4double G4double G4double	fCFCrystalSideX_X; fCFCrystalSideX_Y; fCFCrystalSideX_Z;	
G4double	fCFCrystalSideYSmall_X;	

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G4double fCFCrystalSideYSmall Y;
G4double fCFCrystalSideYSmall_Z;
G4double fCFCrystalSideYBig_X;
G4double fCFCrystalSideYBig_Y;
G4double fCFCrystalSideYBig_Z;
G4double fCFLat_X;
G4double fCFLat_Y;
G4double fCFLat_Z;
G4double fCFFront X;
G4double fCFFront_Y;
G4double fCFFront_Z;
G4double fCFSuppO_X;
G4double fCFSuppO_Y;
G4double fCFSuppO_Z;
G4double fCFSuppV_X;
G4double fCFSuppV_Y;
G4double fCFSuppV_Z;
G4double fCFSuppAO_X;
G4double fCFSuppAO_Y;
G4double fCFSuppAO_Z;
G4double fCFSuppAV_X;
G4double fCFSuppAV_Y;
G4double fCFSuppAV_Z;
G4double fCFSuppPorO_X;
G4double fCFSuppPorO_Y;
G4double fCFSuppPorO_Z;
G4double fCFSuppPorV_X;
G4double fCFSuppPorV_Y;
G4double fCFSuppPorV_Z;
G4double fCFSuppLat_X;
G4double fCFSuppLat_Y;
G4double fCFSuppLat_Z;
G4double fCFSuppFront_X;
G4double fCFSuppFront_Y;
G4double fCFSuppFront_Z;
G4double fCFSuppLatA_X;
G4double fCFSuppLatA_Y;
G4double fCFSuppLatA_Z;
G4double fCFSuppFrontA_X;
G4double fCFSuppFrontA_Y;
G4double fCFSuppFrontA_Z;
G4double fCFLatPO_X ;
G4double fCFLatPO_Y ;
G4double fCFLatPO_Z ;
G4double fCFFrontPO_X ;
G4double fCFFrontPO_Y ;
G4double fCFFrontPO_Z ;
G4double fPoronFrontPO_X ;
G4double fPoronFrontPO_Y ;
G4double fPoronFrontPO_Z ;
```

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G4double fPoronLatPO_X ;
G4double fPoronLatPO Y ;
G4double fPoronLatPO Z ;
G4double fPoronLat_X;
G4double fPoronLat Y;
G4double fPoronLat_Z;
G4double fPoronFront X;
G4double fPoronFront Y;
G4double fPoronFront Z;
G4double fActiveLayer_X;
G4double fActiveLayer_Y;
G4double fActiveLayer Z;
G4double fActiveRectLayer_X;
G4double fActiveRectLayer Y;
G4double fActiveRectLayer Z;
G4double fActiveTrapLayerX1;
G4double fActiveTrapLayerX2;
G4double fActiveTrapLayerY1;
G4double fActiveTrapLayerY2;
G4double fActiveTrapLayerZ;
G4double fTrapPoronX1;
G4double fTrapPoronX2;
G4double fTrapPoronY1;
G4double fTrapPoronY2;
G4double fTrapPoronZ;
G4double fTrapVetoX1;
G4double fTrapVetoX2;
G4double fTrapVetoY1;
G4double fTrapVetoY2;
G4double fTrapVetoZ;
G4double fTrapCFX1;
G4double fTrapCFX2;
G4double fTrapCFY1;
G4double fTrapCFY2;
G4double fTrapCFZ;
G4double fPoronLatX X;
G4double fPoronLatX Y;
G4double fPoronLatX_Z;
G4double fVetoLatX X;
G4double fVetoLatX_Y;
G4double fVetoLatX_Z;
G4double fVetoLatXRight_X;
G4double fVetoLatXRight_Y;
G4double fVetoLatXRight_Z;
 G4double fVetoLatXLeft_X;
G4double fVetoLatXLeft_Y;
G4double fVetoLatXLeft_Z;
G4double fPoronLatY_X;
G4double fPoronLatY_Y;
G4double fPoronLatY Z;
G4double fPoronLatXRight_X;
G4double fPoronLatXRight_Y;
G4double fPoronLatXRight_Z;
```

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G4double fPoronLatXHole X;
G4double fPoronLatXHole_Y;
G4double fPoronLatXHole_Z;
G4double fPoronLatXHoleLeft_X;
G4double fPoronLatXHoleLeft Y;
G4double fPoronLatXHoleLeft Z;
G4double fPoronLatYUp X;
G4double fPoronLatYUp Y;
G4double fPoronLatYUp Z;
G4double fPoronLatYHole X;
G4double fPoronLatYHole Y;
G4double fPoronLatYHole_Z;
G4double fPoronLatYHoleDown_X;
G4double fPoronLatYHoleDown Y;
G4double fPoronLatYHoleDown Z;
G4double fVetoLatY X;
G4double fVetoLatY Y;
G4double fVetoLatY_Z;
G4double fVetoLatYUp_X;
G4double fVetoLatYUp_Y;
G4double fVetoLatYUp Z;
G4double fVetoLatYDown_X;
G4double fVetoLatYDown_Y;
G4double fVetoLatYDown Z;
G4double fCFVetoLatX_X;
G4double fCFVetoLatX_Y;
G4double fCFVetoLatX Z;
G4double fCFVetoLatY X;
G4double fCFVetoLatY Y;
G4double fCFVetoLatY_Z;
G4double fPoronPlateO_X;
G4double fPoronPlateO Y;
G4double fPoronPlateO Z;
G4double fPoronPlateV X;
G4double fPoronPlateV Y;
G4double fPoronPlateV_Z;
G4double fExternalPoronSupportA_X;
G4double fExternalPoronSupportA_Y;
G4double fExternalPoronSupportA_Z;
G4double fExternalPoronSupportB_X;
G4double fExternalPoronSupportB_Y;
G4double fExternalPoronSupportB_Z;
G4double fExternalPoronSupportC_X;
G4double fExternalPoronSupportC_Y;
G4double fExternalPoronSupportC_Z;
G4double fExternalPoronSupportD_X;
G4double fExternalPoronSupportD_Y;
G4double fExternalPoronSupportD_Z;
G4double fExternalPoronSupportE_X;
G4double fExternalPoronSupportE_Y;
G4double fExternalPoronSupportE_Z;
G4double fExternalPoronSupport_X;
```

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G4double	fSolidCFSuppStepLat_X; fSolidCFSuppStepLat_Y; fSolidCFSuppStepLat_Z;	
G4double	<pre>fSolidCFSuppStepFront_X; fSolidCFSuppStepFront_Y; fSolidCFSuppStepFront_Z;</pre>	
G4double	ShiftOrigin;	
G4double	<pre>fPhysiS1_X; fPhysiS1_Y; fPhysiS1_Z;</pre>	
G4double	fPhysiS1SuppHoleBar_X; fPhysiS1SuppHoleBar_Y; fPhysiS1SuppHoleBar_Z;	
G4double	fPhysiS1SuppBar_X; fPhysiS1SuppBar_Y; fPhysiS1SuppBar_Z;	
G4double	fPhysiS1SuppBack_X; fPhysiS1SuppBack_Y; fPhysiS1SuppBack_Z;	
G4double	fPhysiS1SuppThinBar_X; fPhysiS1SuppThinBar_Y; fPhysiS1SuppThinBar_Z;	
G4double	fPhysiS1SuppThinBarBack_X; fPhysiS1SuppThinBarBack_Y; fPhysiS1SuppThinBarBack_Z;	
G4double	fPhysiS1SuppFrontM_X; fPhysiS1SuppFrontM_Y; fPhysiS1SuppFrontM_Z;	
G4double	fPhysiS1SuppPoronFrontM_X; fPhysiS1SuppPoronFrontM_Y; fPhysiS1SuppPoronFrontM_Z;	
G4double	<pre>fPhysiS1ScintContainer_X; fPhysiS1ScintContainer_Y; fPhysiS1ScintContainer_Z;</pre>	
G4double	<pre>fPhysiScintBox_X; fPhysiScintBox_Y; fPhysiScintBox_Z;</pre>	
G4double G4double G4double	fPhysiLastScintLayer_Y;	
G4double G4double G4double	fPhysiLastSuppPor_Y;	
G4double G4double G4double	fPhysiCrystalBox_Y;	
G4double G4double G4double	fPhysiCFCrystalPanelUp_Y;	
G4double G4double		

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· · · · · · · · · · · · · · · · · · ·	fPhysiCFCrystalPanelDown_Z;	1 ago 0/10
	fPhysiCFCrystalPanelDown2_X;	
	fPhysiCFCrystalPanelDown2_Y; fPhysiCFCrystalPanelDown2_Z;	
01404510		
	fPhysiCFCrystalSideX_X;	
G4double	<pre>fPhysiCFCrystalSideX_Y; fPhysiCFCrystalSideX_Z;</pre>	
	fPhysiCFCrystalSideYBig_X; fPhysiCFCrystalSideYBig_Y;	
	fPhysiCFCrystalSideYBig_Z;	
C/double	fDhuai Chuatal Dlaak Dlana Cantainan V.	
	<pre>fPhysiCrystalBlockPlaneContainer_X; fPhysiCrystalBlockPlaneContainer_Y;</pre>	
	fPhysiCrystalBlockPlaneContainer_Z;	
G4double	fPhysiCFSupp_X;	
G4double	fPhysiCFSupp_Y;	
G4double	fPhysiCFSupp_Z;	
G4double	fPhysiCFSuppPor_X;	
	fPhysiCFSuppPor_Y;	
G4double	fPhysiCFSuppPor_Z;	
	fPhysiCFSuppPor2_X;	
	fPhysiCFSuppPor2_Y; fPhysiCFSuppPor2_Z;	
Gidouble	Triffster-Supprot2_2/	
	fPhysiActiveLayer_X;	
	<pre>fPhysiActiveLayer_Y; fPhysiActiveLayer_Z;</pre>	
	<pre>fPhysiCFFront_X; fPhysiCFFront_Y;</pre>	
	fPhysiCFFront_Z;	
CAdoublo	fDhygiCELat V:	
	fPhysiCFLat_X; fPhysiCFLat_Y;	
G4double	fPhysiCFLat_Z;	
G4double	fPhysiPoronLat_X;	
G4double	fPhysiPoronLat_Y;	
G4double	fPhysiPoronLat_Z;	
G4double	fPhysiPoronFront_X;	
	fPhysiPoronFront_Y;	
G4double	fPhysiPoronFront_Z;	
	fPhysiCFFrontPO_X;	
	<pre>fPhysiCFFrontPO_Y; fPhysiCFFrontPO_Z;</pre>	
Gidoabie	III/DIGITIONGIO_2/	
	<pre>fPhysiCFLatPO_X; fPhysiCFLatPO_Y;</pre>	
	fPhysiCFLatPO_Z;	
	<pre>fPhysiPoronLatPO_X; fPhysiPoronLatPO_Y;</pre>	
	fPhysiPoronLatPO_Z;	
G4double	fPhysiPoronFrontPO_X;	
G4double	fPhysiPoronFrontPO_Y;	
G4double	fPhysiPoronFrontPO_Z;	
G4double	<pre>fPhysiExternalPoronSupport_X;</pre>	
G4double	<pre>fPhysiExternalPoronSupport_Y;</pre>	
G4double	fPhysiExternalPoronSupport_Z;	

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		. 250 0/ 10
	<pre>fExternalPoronSupport1_X; fExternalPoronSupport1_Y;</pre>	
	fExternalPoronSupport2_X;	
	fExternalPoronSupport3_X;	
	<pre>fExternalPoronSupport3_Y;</pre>	
	fExternalPoronSupport4_X;	
	fExternalPoronSupport4_Y; fExternalPoronSupport4_Z;	
G4double	fCFVetoLatXHole_X;	
G4double	<pre>fCFVetoLatXHole_Y; fCFVetoLatXHole_Z;</pre>	
CAdoublo	fCEVIOLOI atVHoloBight V:	
	fCFVetoLatXHoleRight_X; fCFVetoLatXHoleRight_Y;	
	fCFVetoLatXHoleRight_Z;	
G4double	fCFVetoLatYHole_X;	
	<pre>fCFVetoLatYHole_Y; fCFVetoLatYHole_Z;</pre>	
G4double	fCFVetoLatYHoleDown_X;	
G4double	fCFVetoLatYHoleDown_Y; fCFVetoLatYHoleDown_Z;	
CAdoublo	fDhugi Doroni at V2 V	
	<pre>fPhysiPoronLatX3_X; fPhysiPoronLatX3_Y;</pre>	
	fPhysiPoronLatX3_Z;	
	fPhysiPoronLatY3_X;	
	fPhysiPoronLatY3_Y;	
G4double	fPhysiPoronLatY3_Z;	
G4double	fPhysiPoronLatX3Int_X;	
G4double	<pre>fPhysiPoronLatX3Int_Y; fPhysiPoronLatX3Int_Z;</pre>	
G4double	<pre>fPhysiPoronLatY3Int_X;</pre>	
	fPhysiPoronLatY3Int_Y;	
	fPhysiPoronLatY3Int_Z;	
	fPhysiVetoLatX2_X;	
	fPhysiVetoLatX2_Y;	
G4double	fPhysiVetoLatX2_Z;	
G4double	fPhysiVetoLatY2_X;	
	fPhysiVetoLatY2_Y;	
	fPhysiVetoLatY2_Z;	
	fPhysiCFVetoLatX2_X;	
	fPhysiCFVetoLatX2_Y; fPhysiCFVetoLatX2_Z;	
G4double	fPhysiCFVetoLatY2_X;	
	fPhysiCFVetoLatY2_Y;	
	fPhysiCFVetoLatY2_Z;	
	<pre>fPoronLat1X_X; fPoronLat1X_Z;</pre>	
G4double	fPoronLat2X X;	
	fPoronLat2X_Z;	
	fPoronLat3X_X;	
	<pre>fVetoLat1X_X; fVetoLat1X_Z;</pre>	
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G4double fVetoLat2X X;
G4double fVetoLat2X_Z;
G4double fCFVetoLat1X X;
G4double fCFVetoLat1X_Z;
G4double fCFVetoLat2X X;
G4double fPoronLat1Y_Y;
G4double fPoronLat1Y Z;
G4double fPoronLat2Y_Y;
G4double fPoronLat2Y Z;
G4double fPoronLat3Y_Y;
G4double fVetoLat1Y_Y;
G4double fVetoLat1Y_Z;
G4double fVetoLat2Y_Y;
G4double fVetoLat2Y_Z;
G4double fCFVetoLat1Y_Y;
G4double fCFVetoLat1Y_Z;
G4double fCFVetoLat2Y_Y;
G4double fPhysiCFSuppTop_X;
G4double fPhysiCFSuppTop_Y;
G4double fPhysiCFSuppTop_Z;
G4double fPhysiPORSuppTop_X;
G4double fPhysiPORSuppTop_Y;
G4double fPhysiPORSuppTop_Z;
G4double fPhysiRealTrapCF_Z;
G4double fPhysiRealTrapCF2_Z;
G4double fPhysiRealTrapPoron1_Z;
G4double fPhysiRealTrapPoron2_Z;
G4double fPhysiRealTrapVeto_Z;
G4double fPhysiPoronPlateOTop_X;
G4double fPhysiPoronPlateOTop_Y;
G4double fPhysiPoronPlateOTop_Z;
G4double fPhysiPoronPlateVTop_X;
G4double fPhysiPoronPlateVTop_Y;
G4double fPhysiPoronPlateVTop_Z;
G4double fPhysiPoronPlateOBottom_X;
G4double fPhysiPoronPlateOBottom_Y;
G4double fPhysiPoronPlateOBottom_Z;
G4double fPhysiPoronPlateVBottom_X;
G4double fPhysiPoronPlateVBottom_Y;
G4double fPhysiPoronPlateVBottom_Z;
HEPDSWMaterial*
                     pMaterial;
G4Box* fSolidS1;
G4Box* fSolidS1SuppHoleBar;
G4Box* fSolidS1SuppBar;
G4Box* fSolidS1SuppBack;
G4Box* fSolidS1SuppTopBase;
G4Box* fSolidS1SuppTopHole;
{\tt G4SubtractionSolid*} \ {\tt fSolidS1SuppFrontTemp0;}
G4SubtractionSolid* fSolidS1SuppFrontTemp1;
G4SubtractionSolid* fSolidS1SuppFrontTemp2;
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G4SubtractionSolid* fSolidS1SuppFront;
G4Box* fSolidS1SuppThinBar;
G4Box* fSolidS1SuppThinBarBack;
G4Box* fSolidS1SuppPoronFront;
G4Box* fSolidS1ScintContainer;
G4Box* fSolidS1Scint;
G4Box* fSolidCFSuppPorO;
G4Box* fSolidCFSuppPorV;
G4Box* fSolidCaloBox;
G4Box* fSolidScintBox;
G4Box* fSolidCrystalBox;
G4Trap* fSolidActiveTrapLayer;
G4Trap* fSolidTrapPoronLayer;
G4Trap* fSolidTrapVetoLayer;
G4Trap* fSolidTrapCFLayer;
G4Box* fSolidLayer;
G4Box* fSolidLastLayer;
G4Box * fSolidActiveRectLayer;
G4UnionSolid* fSolidActiveLayer_1;
G4UnionSolid* fSolidActiveLayer;
G4UnionSolid* fSolidRealTrapPoronLayer;
G4UnionSolid* fSolidRealTrapCFLayer;
G4UnionSolid* fSolidRealTrapVetoLayer;
G4Box* fSolidExternalPoronSupportA;
G4Box* fSolidExternalPoronSupportB;
G4Box* fSolidExternalPoronSupportC;
G4Box* fSolidExternalPoronSupportD;
G4Box* fSolidExternalPoronSupportE;
G4UnionSolid* fSolidExternalPoronSupport1;
G4UnionSolid* fSolidExternalPoronSupport2;
G4UnionSolid* fSolidExternalPoronSupport3;
G4UnionSolid* fSolidExternalPoronSupport;
G4Box* fSolidCFBlockContainerExt;
G4Box* fSolidCFBlockContainerInt;
G4SubtractionSolid* fSolidCFBlockContainer;
G4SubtractionSolid* fSolidCylinderPanelDown1;
G4SubtractionSolid* fSolidCylinderPanelDown2;
G4SubtractionSolid* fSolidCylinderPanelDown3;
G4SubtractionSolid* fSolidCylinderPanelDown4;
G4SubtractionSolid* fSolidCylinderPanelDown5;
G4SubtractionSolid* fSolidCylinderPanelDown6;
G4SubtractionSolid* fSolidCylinderPanelDown7;
G4SubtractionSolid* fSolidCylinderPanelDown8;
G4SubtractionSolid* fSolidPanelDown;
G4SubtractionSolid* fSolidSquarePanelDown1;
G4SubtractionSolid* fSolidSquarePanelDown2;
G4SubtractionSolid* fSolidSquarePanelDown3;
G4SubtractionSolid* fSolidSquarePanelDown4;
G4SubtractionSolid* fSolidSquarePanelDown5;
G4SubtractionSolid* fSolidSquarePanelDown6;
G4SubtractionSolid* fSolidSquarePanelDown7;
G4SubtractionSolid* fSolidSquarePanelDown8;
G4SubtractionSolid* fSolidPanelDown2;
G4Box* fSolidSingleCrystalBlockContainer;
G4Box* fSolidCrvstalActiveBlock;
G4Box* fSolidTeflonLYSO;
G4Box* fSolidTeflonContainerExt;
G4SubtractionSolid* fSolidTeflonContainer;
G4Box* fSolidCFCrystalPanelDown;
G4Box* fSolidCFCrystalPanelDownTemp;
```

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G4Box* fSolidCFCrystalPanelDownHole;
G4Cons* fSolidCylinderPanelDown;
G4Box* fSolidCrystalBlockContainer;
G4Box* fSolidCrystalBlockRawContainer;
G4Box* fSolidCFCrystalSideX;
G4Box* fSolidCFCrystalSideYBig;
G4Box* fSolidCFFront;
G4Box* fSolidCFLat;
G4Box* fSolidCFFrontPO;
G4Box* fSolidCFLatPO;
G4Box* fSolidCFSuppO;
G4Box* fSolidCFSuppV;
G4Box* fSolidCFSuppLat;
G4Box* fSolidCFSuppFront;
G4Box* fSolidCFSuppLatA;
G4Box* fSolidCFSuppFrontA;
G4Box* fSolidCFSuppOA;
G4Box* fSolidCFSuppVA;
G4UnionSolid* fSolidCFSuppPoron;
G4UnionSolid* fSolidCFSuppStepOV;
G4UnionSolid* fSolidCFSuppStepLat1;
G4UnionSolid* fSolidCFSuppStepLat2;
G4UnionSolid* fSolidCFSuppStepFront1;
G4UnionSolid* fSolidCFSupp;
G4UnionSolid* fSolidCFSuppStepLat1A;
G4UnionSolid* fSolidCFSuppStepLat2A;
G4UnionSolid* fSolidCFSuppStepFront1A;
G4UnionSolid* fSolidCFSuppA;
G4UnionSolid* fSolidCFSuppStepOVA;
G4Box* fSolidPoronFront;
G4Box* fSolidPoronLat;
G4Box* fSolidPoronFrontPO;
G4Box* fSolidPoronLatPO;
G4Box* fSolidPoronLatX;
G4Box* fSolidPoronLatXRight;
G4Box* fSolidPoronLatXHole;
G4Box* fSolidPoronLatXHoleLeft;
G4Box* fSolidPoronLatYUp;
G4Box* fSolidPoronLatYHole;
G4Box* fSolidPoronLatYHoleDown;
G4UnionSolid* fSolidPoronLatX 1;
G4UnionSolid* fSolidPoronLatX_2;
G4UnionSolid* fSolidPoronLatX_3;
G4UnionSolid* fSolidVetoLatX 1;
G4UnionSolid* fSolidVetoLatX_2;
G4UnionSolid* fSolidPoronLatY 1;
G4UnionSolid* fSolidPoronLatY_2;
G4UnionSolid* fSolidPoronLatY_3;
G4UnionSolid* fSolidVetoLatY 1;
G4UnionSolid* fSolidVetoLatY 2;
G4UnionSolid* fSolidCFVetoLatX 1;
G4UnionSolid* fSolidCFVetoLatX_2;
G4UnionSolid* fSolidCFVetoLatY_1;
G4UnionSolid* fSolidCFVetoLatY 2;
G4Box* fSolidCFVetoLatX;
G4Box* fSolidCFVetoLatXHole;
G4Box* fSolidCFVetoLatXHoleRight;
G4Box* fSolidCFVetoLatY;
G4Box* fSolidCFVetoLatYHole;
G4Box* fSolidCFVetoLatYHoleDown;
```

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,		0
G4Box* fSolidVet		
G4Box* fSolidVeto G4Box* fSolidVeto		
G4Box* fSolidPor		
G4Box* fSolidVet		
G4Box* fSolidVet		
G4Box* fSolidVete G4Box* fSolidPore		
G4Box* fSolidPor		
G4LogicalVolume*	fLogicS1;	
G4LogicalVolume*	fLogicS1SuppBack;	
G4LogicalVolume*	fLogicS1SuppHoleBar;	
	<pre>fLogicS1SuppBar; fLogicS1SuppFront;</pre>	
	fLogicS1SuppThinBar;	
G4LogicalVolume*	fLogicS1SuppThinBarBack;	
	fLogicS1SuppPoronFront;	
	<pre>fLogicS1ScintContainerP; fLogicS1ScintContainerM;</pre>	
G4LogicalVolume*		
G4LogicalVolume*	fLogicCFSuppPoron;	
G4LogicalVolume*	fLogicCaloBox;	
G4LogicalVolume*		
	fLogicCrystalBox; fLogicScintLayer;	
	fLogicScintActiveLayer;	
G4LogicalVolume*	fLogicCrystalBlockContainer;	
	fLogicCrystalBlockPlaneContainer;	
	<pre>fLogicCrystalBlockRawContainer; fLogicCrystalActiveBlock;</pre>	
G4LogicalVolume*	fLogicTeflonLYSO;	
G4LogicalVolume*	fLogicTeflonContainer;	
	fLogicCFCrystalPanelDown;	
G4LogicalVolume*	<pre>fLogicCFCrystalPanelDown2; fLogicCFBlockContainer;</pre>	
	fLogicCFCrystalSideX;	
G4LogicalVolume*	fLogicCFCrystalSideYBig;	
G4LogicalVolume*		
G4LogicalVolume* G4LogicalVolume*	fLogicCFFrontPO;	
G4LogicalVolume*		
G4LogicalVolume*		
G4LogicalVolume*	fLogicPoropLat:	
G4LogicalVolume*	fLogicPoronFront;	
G4LogicalVolume*	fLogicPoronLatPO;	
G4LogicalVolume*	fLogicPoronFrontPO;	
G4LogicalVolume*	fLogicPoronLatX;	
	fLogicPoronLatY;	
G4LogicalVolume*	fLogicVetoLatX;	
G4LogicalVolume*	fLogicVetoLatX2;	
G4LogicalVolume*	fLogicVetoLatY;	
G4LogicalVolume*	fLogicVetoLatY2;	
G4LogicalVolume*		
G4LogicalVolume*	fLogicCFVetoLatY;	
G4LogicalVolume*	fLogicExternalPoronSupport;	
G4LogicalVolume*	fLogicRealTrapPoronLayer;	
G4LogicalVolume*	fLogicRealTrapVetoLayer;	
G4LogicalVolume* G4LogicalVolume*		
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G4LogicalVolume* fLogicPoronPlateV;
G4LogicalVolume* fLogicLastScintLayer;
G4VPhysicalVolume* fPhysiS1;
G4VPhysicalVolume* fPhysiS1SuppBack;
G4VPhysicalVolume* fPhysiS1SuppHoleBar;
G4VPhysicalVolume* fPhysiS1SuppBarl;
G4VPhysicalVolume* fPhysiS1SuppBar2;
G4VPhysicalVolume* fPhysiS1SuppThinBar1;
G4VPhysicalVolume* fPhysiS1SuppThinBarBack1;
G4VPhysicalVolume* fPhysiS1SuppFrontM;
G4VPhysicalVolume* fPhysiS1SuppFrontPoronM;
G4VPhysicalVolume* fPhysiS1SuppThinBar2;
G4VPhysicalVolume* fPhysiS1SuppThinBarBack2;
G4VPhysicalVolume* fPhysiS1ScintContainerP;
G4VPhysicalVolume* fPhysiS1ScintContainerM;
G4VPhysicalVolume* fPhysiS1ScintP;
G4VPhysicalVolume* fPhysiS1ScintM;
G4VPhysicalVolume* fPhysiCaloBox;
G4VPhysicalVolume* fPhysiScintBox;
G4VPhysicalVolume* fPhysiScintLayer;
G4VPhysicalVolume* fPhysiScintCFSupp;
G4VPhysicalVolume* fPhysiScintActiveLayer;
G4VPhysicalVolume* fPhysiLastScintLayer;
G4VPhysicalVolume* fPhysiScintCFFrontP;
G4VPhysicalVolume* fPhysiScintCFFrontM;
G4VPhysicalVolume* fPhysiScintCFLatP;
G4VPhysicalVolume* fPhysiScintCFLatM;
G4VPhysicalVolume* fPhysiScintPoronLatP;
G4VPhysicalVolume* fPhysiScintPoronLatM;
G4VPhysicalVolume* fPhysiScintPoronLatUp;
G4VPhysicalVolume* fPhysiScintPoronLatDown;
G4VPhysicalVolume* fPhysiScintCFFrontPPO;
G4VPhysicalVolume* fPhysiScintCFFrontMPO;
G4VPhysicalVolume* fPhysiScintCFLatPPO;
G4VPhysicalVolume* fPhysiScintCFLatMPO;
G4VPhysicalVolume* fPhysiScintPoronLatPPO;
G4VPhysicalVolume* fPhysiScintPoronLatMPO;
G4VPhysicalVolume* fPhysiScintPoronLatUpPO;
G4VPhysicalVolume* fPhysiScintPoronLatDownPO;
G4VPhysicalVolume* fPhysiCrystalBox;
G4VPhysicalVolume* fPhysiCFCrystalPanelDown;
G4VPhysicalVolume* fPhysiCFCrystalPanelDown2;
G4VPhysicalVolume* fPhysiCFCrystalSideXP;
G4VPhysicalVolume* fPhysiCFCrystalSideXM;
G4VPhysicalVolume* fPhysiCFCrystalSideYBigP;
G4VPhysicalVolume* fPhysiCFCrystalSideYBigM;
G4VPhysicalVolume* fPhysiCrystalBlockPlaneContainer;
G4VPhysicalVolume* fPhysiCrystalBlockRaw;
G4VPhysicalVolume* fPhysiCrystalActiveBlock;
G4VPhysicalVolume* fPhysiTeflonLYSO;
G4VPhysicalVolume* fPhysiTeflonContainer;
G4VPhysicalVolume* fPhysiPoronLatXRight_3;
G4VPhysicalVolume* fPhysiPoronLatXLeft_3;
G4VPhysicalVolume* fPhysiPoronLatYUp_3;
G4VPhysicalVolume* fPhysiPoronLatYDown_3;
G4VPhysicalVolume* fPhysiPoronLatXRightInt_3;
G4VPhysicalVolume* fPhysiPoronLatXLeftInt_3;
G4VPhysicalVolume* fPhysiPoronLatYUpInt_3;
G4VPhysicalVolume* fPhysiPoronLatYDownInt_3;
G4VPhysicalVolume* fPhysiVetoLatXRight_2;
G4VPhysicalVolume* fPhysiVetoLatXLeft_2;
G4VPhysicalVolume* fPhysiVetoLatYUp_2;
G4VPhysicalVolume* fPhysiVetoLatYDown_2;
```

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 G4VPhysicalVolume* fPhysiCFVetoLatXRight_2;
 G4VPhysicalVolume* fPhysiCFVetoLatXLeft_2;
 G4VPhysicalVolume* fPhysiCFVetoLatYUp_2;
 G4VPhysicalVolume* fPhysiCFVetoLatYDown_2;
 G4VPhysicalVolume* fPhysiRealTrapPoronLayer1;
 G4VPhysicalVolume* fPhysiRealTrapPoronLayer2;
 G4VPhysicalVolume* fPhysiRealTrapVetoLayer;
 G4VPhysicalVolume* fPhysiRealTrapCFLayer;
 G4VPhysicalVolume* fPhysiRealTrapCFLayer2;
 G4VPhysicalVolume* fPhysiExternalPoronSupport1;
 G4VPhysicalVolume* fPhysiExternalPoronSupport2;
 G4VPhysicalVolume* fPhysiExternalPoronSupport3;
 G4VPhysicalVolume* fPhysiExternalPoronSupport4;
 G4VPhysicalVolume* fPhysiPoronPlateO1_Top;
 G4VPhysicalVolume* fPhysiPoronPlateV1_Top;
 G4VPhysicalVolume* fPhysiPoronPlateO2_Top;
 G4VPhysicalVolume* fPhysiPoronPlateV2_Top;
 G4VPhysicalVolume* fPhysiPoronPlateO1_Bottom;
 G4VPhysicalVolume* fPhysiPoronPlateV1_Bottom;
G4VPhysicalVolume* fPhysiPoronPlate02_Bottom;
G4VPhysicalVolume* fPhysiPoronPlateV2_Bottom;
 G4VPhysicalVolume* fPhysiCFSuppTop;
#endif
```