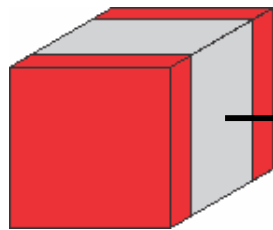


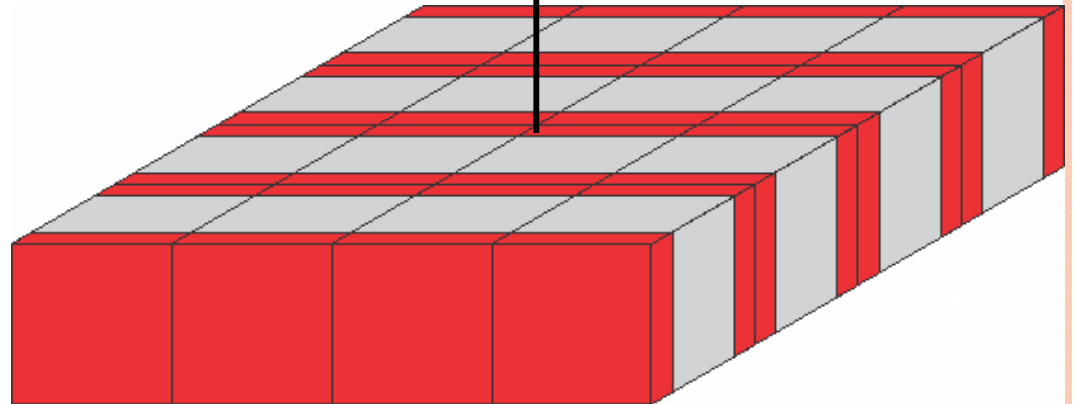
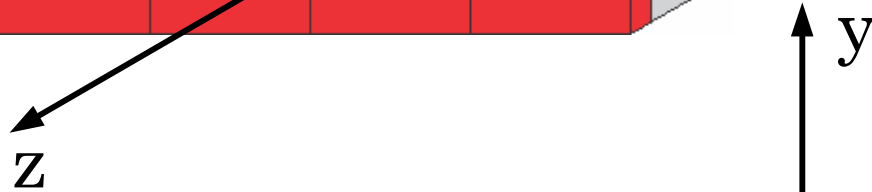
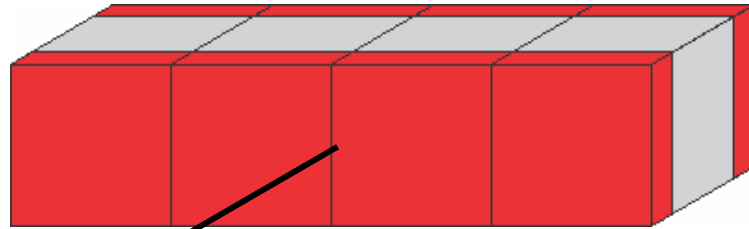
06/17/2011

Weekly Meeting

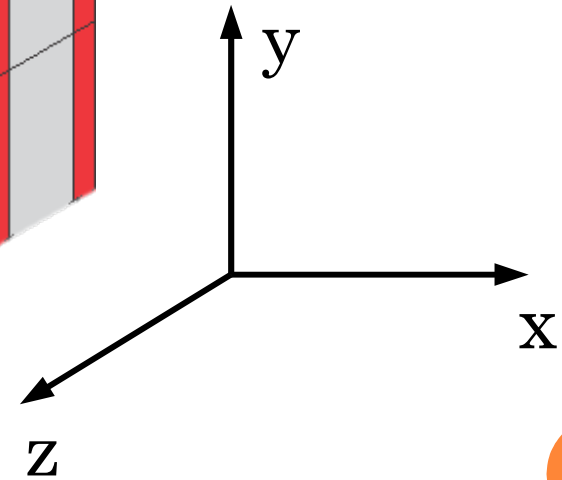
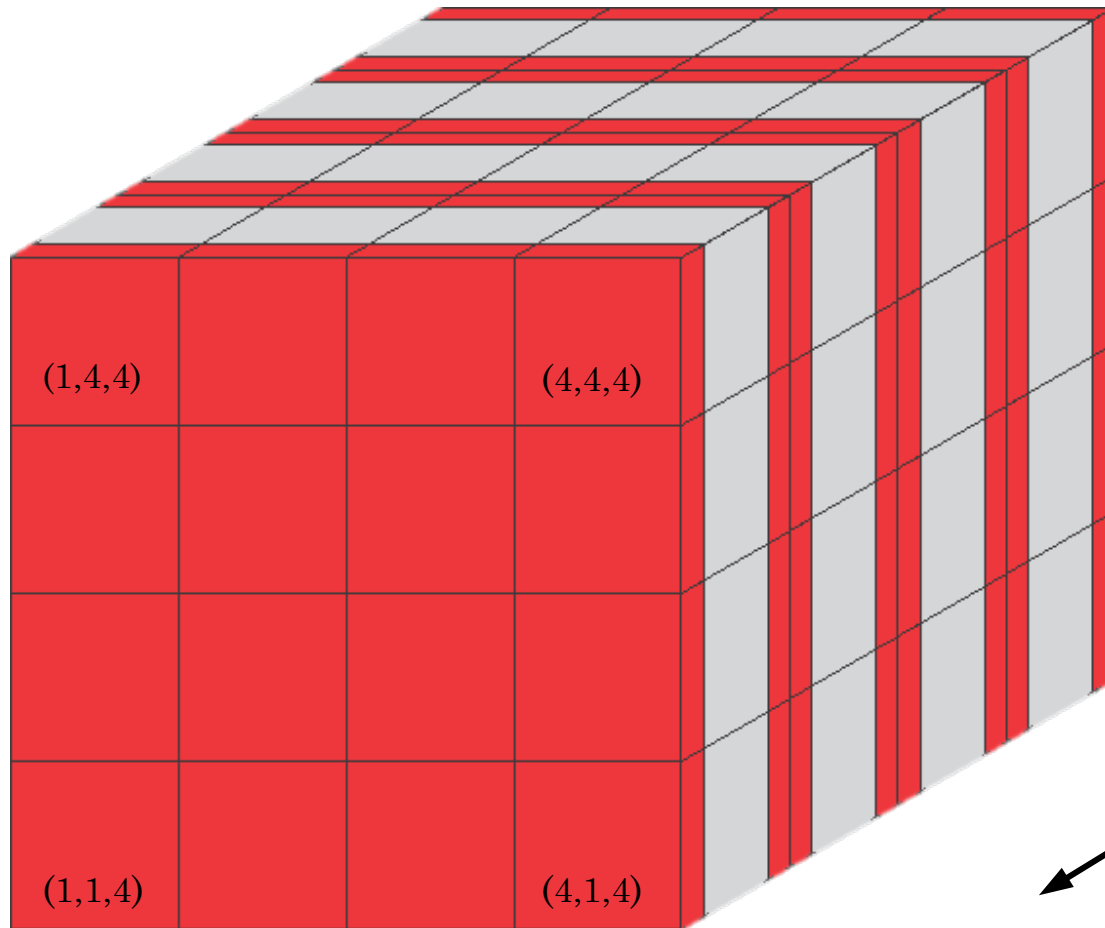
Edgar Nandayapa



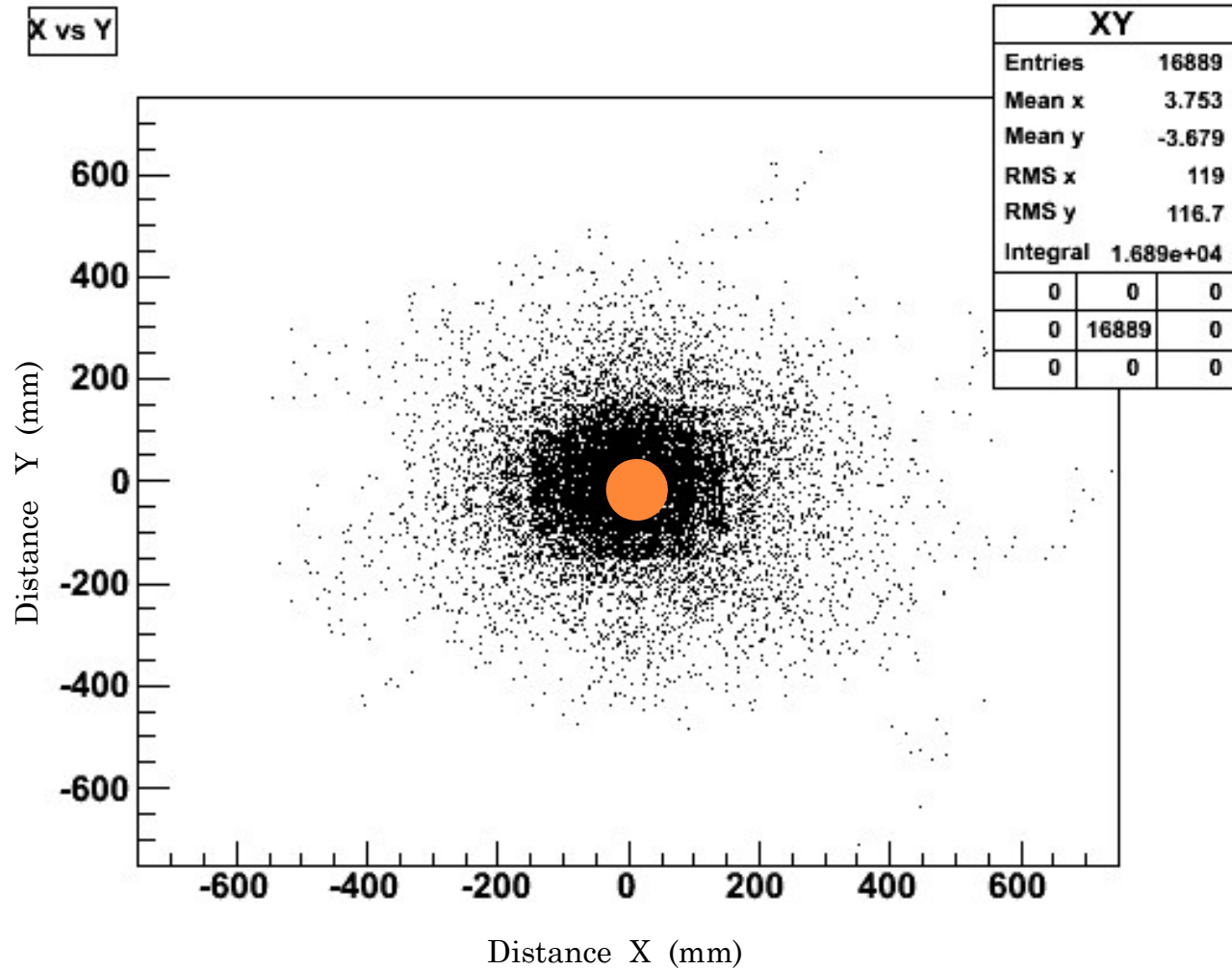
Replicas



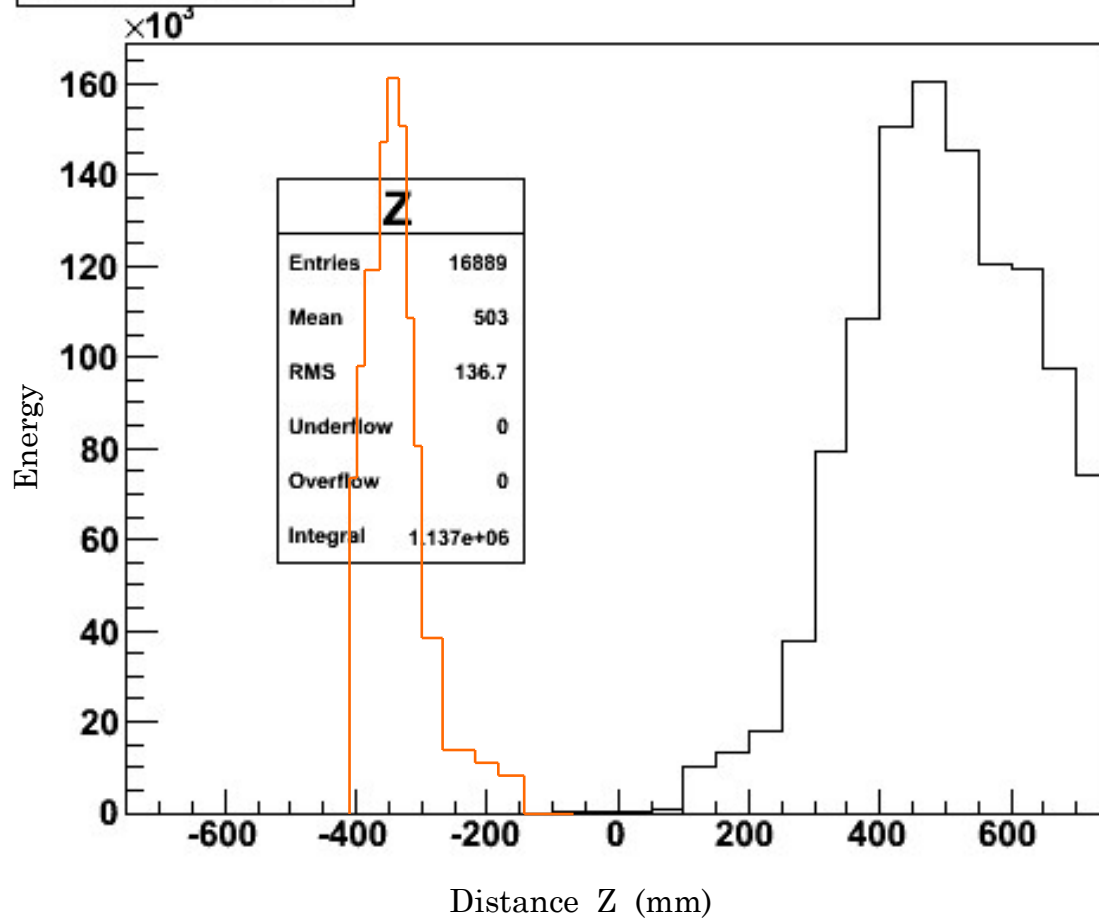
TouchableHandle



Large Distribution



Energy deposition longitudinal



```

% ElmAbundance 21.05 %
crystal Crystalbar
material G4_BG0
density Material: G4_BG0 density: 7.130 g/cm3 RadL: 1.118 cm Nuc1.Int.Length: 22.694 cm Imean
: 534.100 eV
----> Element: 0 (O) Z = 8.0 N = 16.0 A = 16.00 g/mole
----> Isotope: 016 Z = 8 N = 16 A = 15.99 g/mole abundance: 99.76 %
----> Isotope: 017 Z = 8 N = 17 A = 17.00 g/mole abundance: 0.04 %
----> Isotope: 018 Z = 8 N = 18 A = 18.00 g/mole abundance: 0.20 % ElmMassFraction: 15.41
% ElmAbundance 63.16 %
----> Element: Ge (Ge) Z = 32.0 N = 72.7 A = 72.61 g/mole
----> Isotope: Ge70 Z = 32 N = 70 A = 69.92 g/mole abundance: 20.84 %
----> Isotope: Ge72 Z = 32 N = 72 A = 71.92 g/mole abundance: 27.54 %
----> Isotope: Ge73 Z = 32 N = 73 A = 72.92 g/mole abundance: 7.73 %
----> Isotope: Ge74 Z = 32 N = 74 A = 73.92 g/mole abundance: 36.28 %
----> Isotope: Ge76 Z = 32 N = 76 A = 75.92 g/mole abundance: 7.61 % ElmMassFraction: 17.48
% ElmAbundance 15.79 %
----> Element: Bi (Bi) Z = 83.0 N = 209.0 A = 208.98 g/mole
----> Isotope: Bi209 Z = 83 N = 209 A = 208.98 g/mole abundance: 100.00 % ElmMassFraction: 67.11
% ElmAbundance 21.05 %
crystal Crystalbar

```

```
DRCalTargetSD.cc x DRCal.cc x DRCalTargetSD.hh x EleAna.C x DRCalDetectorConstruction.cc x
void DRCalDetectorConstruction::SetDefaults() {
101 //
102 // Parameters of the Crystal:
103 //
104
105 Crystalbar_x = 2.5 * cm;
106 Crystalbar_y = 2.5 * cm;
107 Crystalbar_z = 2.5 * cm;
108
109 Ncellx = 30;
110 Ncelly = 30;
111 Ncellz = 30;
112 //
113 // Parameters of the square sensitive Si detector:
114 //
115 sidet_x = Crystalbar_x;
116 sidet_y = Crystalbar_y;
117 sidet_z = 0.15 * mm;
118 //
119 air_Gap = 0.001 * mm;
120 CrystalMaterial = BGO;
121 CrystalSurfaceType = dielectric_LUT;
122 CrystalSurfaceModel = LUT;
123 CrystalSurfaceFinish = etchedtyvekair;
124 BirksConstant = 0.126 * mm / MeV;
125 Dump();
126 updated = true;
127 }
128 //...ooo00000ooo.....ooo00000ooo.....ooo00000ooo.....ooo00000ooo.....
```