

Fermilab

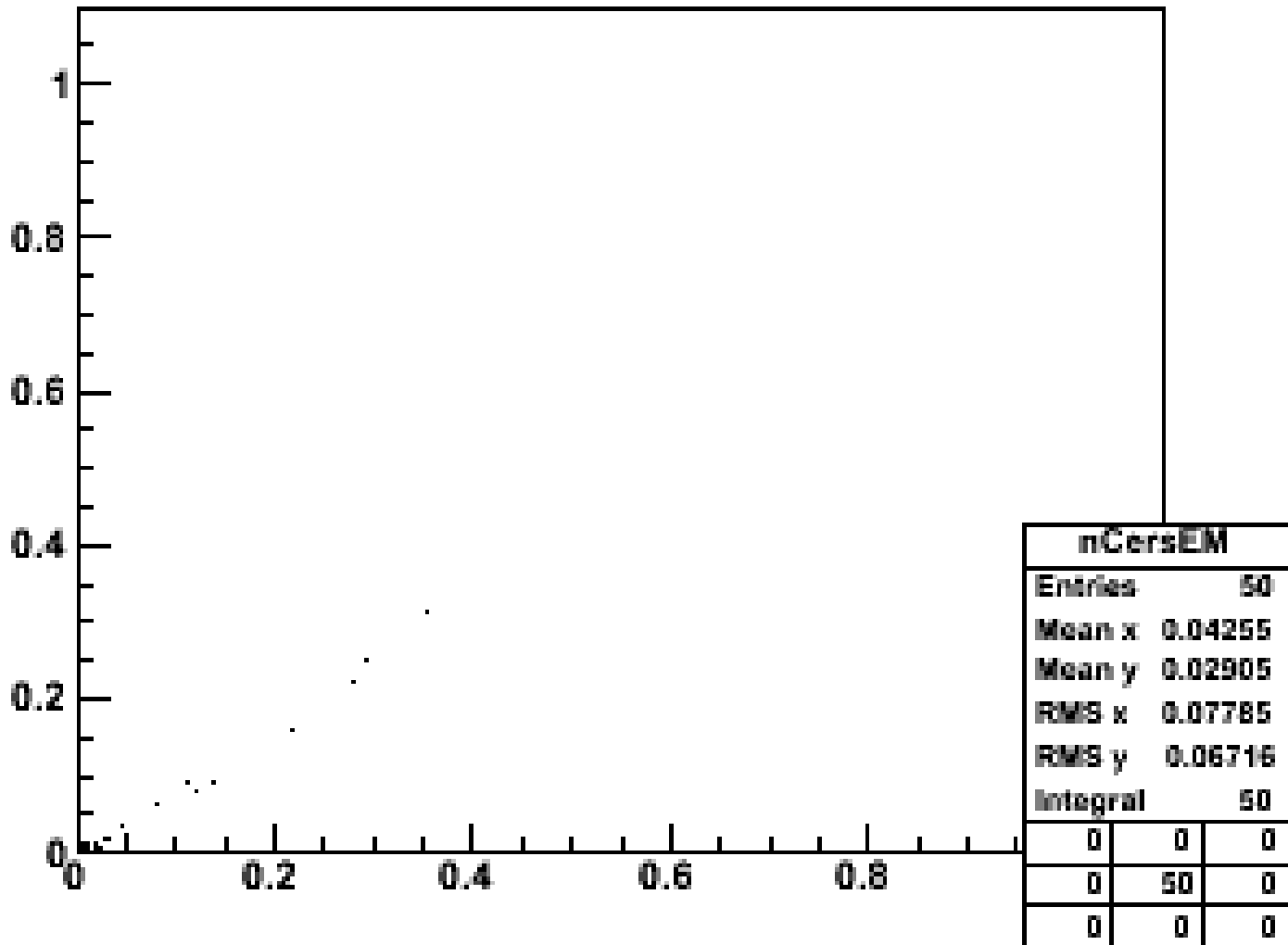
Weekly meeting

1st week - 06/03/11

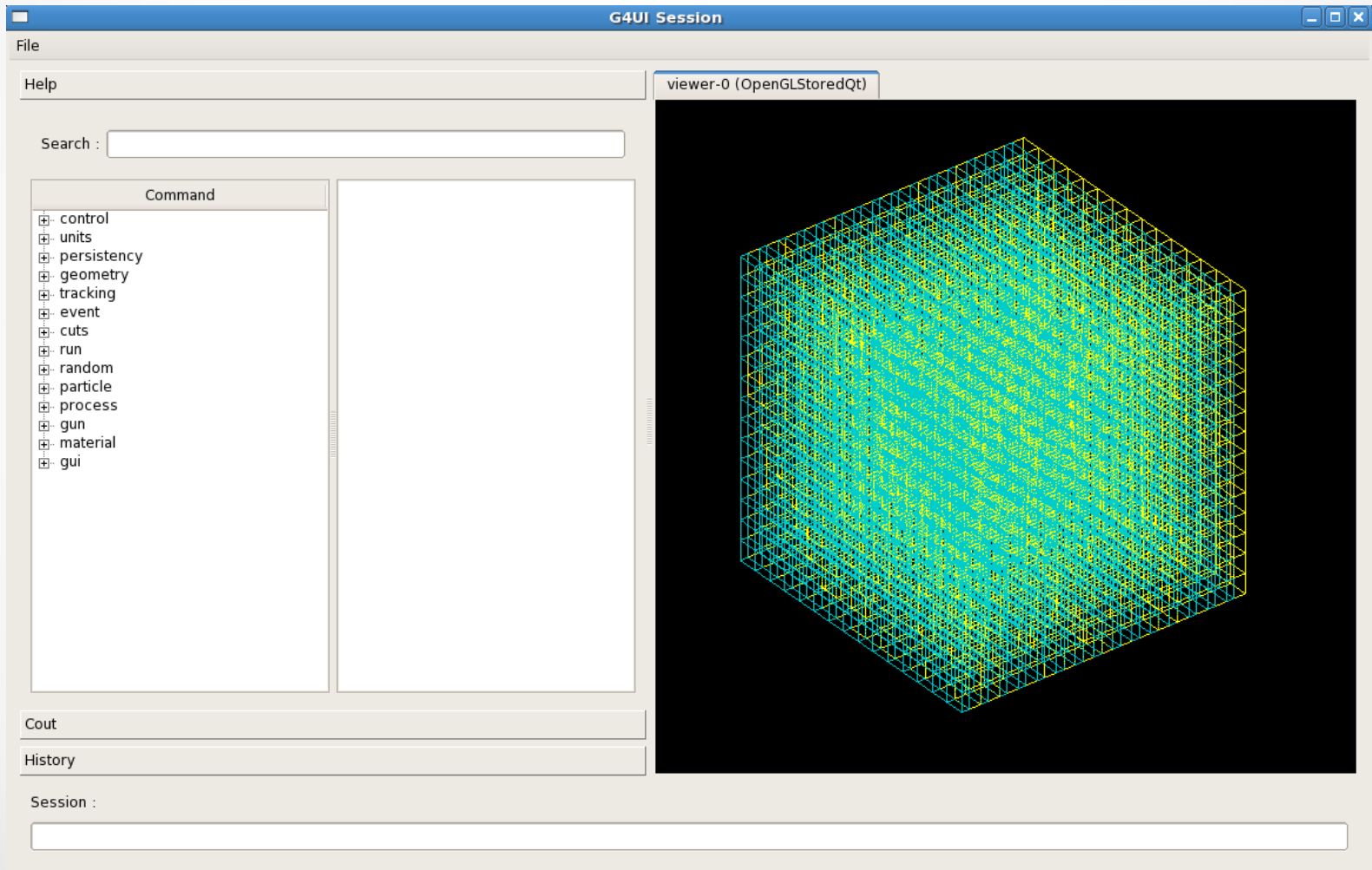
Edgar Nandayapa

Statistics

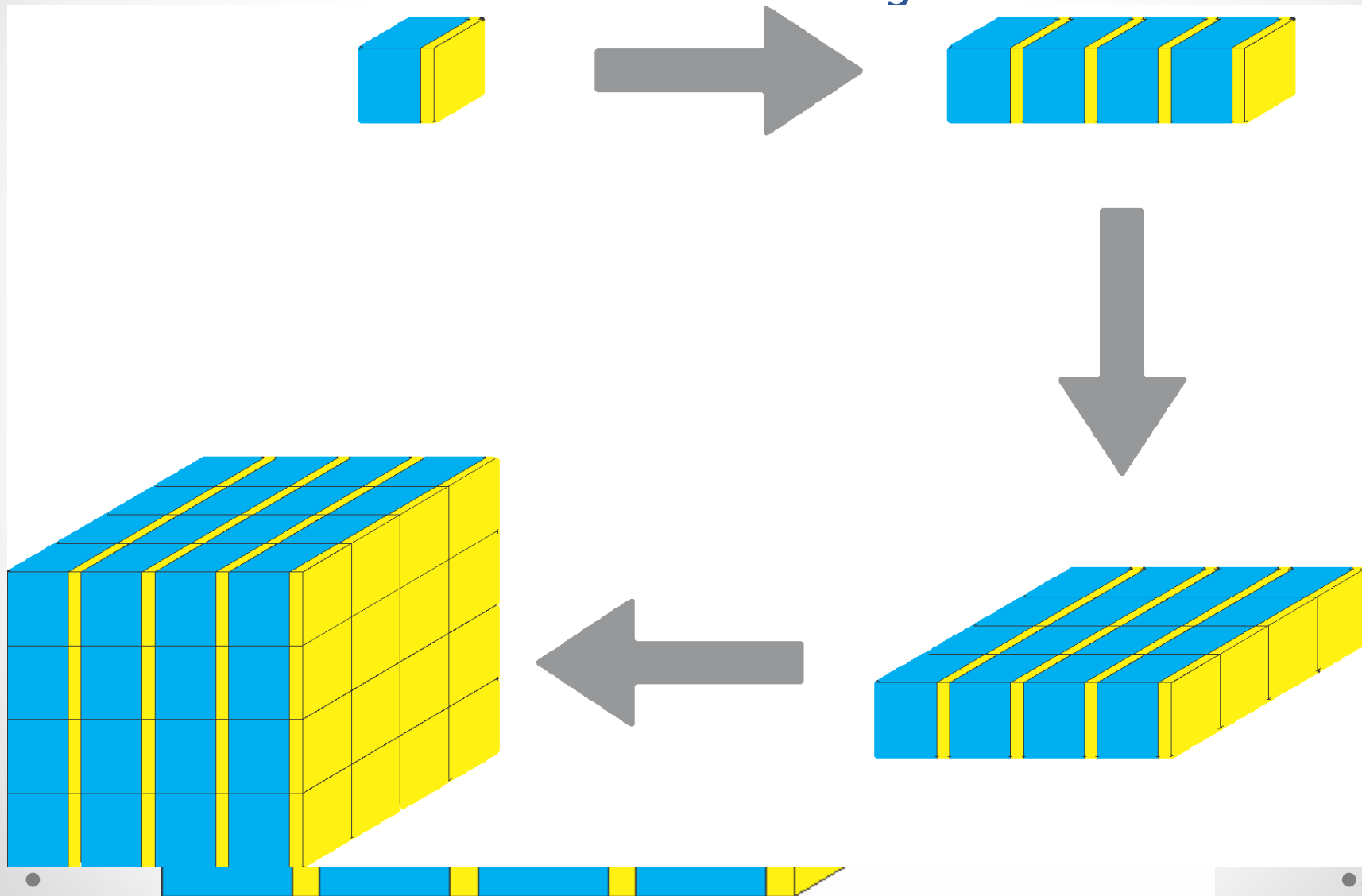
N Ceren vs EM



Geometry



Geometry



Geometry

```
DetectorConstruction.cc - emacs@kyoto.fnal.gov
File Edit Options Buffers Tools C++ Help
[Icons]
myAir      = Nistman->FindOrBuildMaterial("G4_AIR");
}
void DetectorConstruction::ComputeParameters()
{
    // Geometry: Initialization of some parameters.
    // The variable names will be used for the geometrv.
```

```
WorldLength = 2.5*m;           // Size of the cube
ScintWidth = 10.*cm;          // Width of Scintillator
NbOfEnvLayer = 15;            // Number of layers (one layer = Pb + Scintillator)
```

```
ScintillatorWidthZ = ScintWidth;
ScintillatorX = WorldLength / NbOfEnvLayer; // Full size X of the scintillator layer
ScintillatorY = WorldLength / NbOfEnvLayer; // Full size Y of the scintillator layer

PbLayerX = WorldLength/NbOfEnvLayer; // Full size X of the Lead (Pb) layer
PbLayerY = WorldLength/NbOfEnvLayer; // Full size Y of the Lead (Pb) layer
PbLayerWidthZ = (WorldLength/NbOfEnvLayer)-ScintWidth; // Full size Z of the Lead (Pb) layer

EnvLayerX= PbLayerX; // Full size X of the Envelope layer
EnvLayerY= PbLayerY; // Full size Y of the Envelope layer
EnvLayerWidthZ = PbLayerWidthZ + ScintillatorWidthZ; // Full size Z of the Envelope layer

CalorBoxX= EnvLayerX ; // Full size X of the calorimeter box
CalorBoxY= EnvLayerY; // Full size Y of the calorimeter box
CalorBoxWidthZ = EnvLayerWidthZ * NbOfEnvLayer; // Full size Z of the calorimeter box

EnvLayerXK= CalorBoxX;
EnvLayerYK= CalorBoxY;
```

```
---** DetectorConstruction.cc (C++ Abbrev)--L141--21%-----
```