

BhaBha simumation

Cgemboss665h and 665p01

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BHABHA SIMULATION

```

//*****job options for generator (Babayaga)*****
ApplicationMgr.DLLs += {"Babayaga"};
ApplicationMgr.TopAlg += {"Babayaga"};
//Babayaga.Seed = 62341342;           // seed for random number generator
Babayaga.Channel=1;                   // 1: e+e-->e+e-;2:e+e-->mu+mu-;3:e+e--
>gamma gamma;4:e+e-->pi+pi-
Babayaga.Ebeam=1.5485;                 // Ecm = 2*Ebeam [GeV]
Babayaga.MinThetaAngle=16;             // minimum angle(deg.)    16
Babayaga.MaxThetaAngle=164;            //maximum angle(deg.)    164
Babayaga.MinimumEnergy=0.4;            //minimum energy (GeV)
Babayaga.MaximumAcollinearity=10;      //maximum acollinearity (deg.)
Babayaga.RunningAlpha=1;               //running alpha (0 = off, 1 = on)
Babayaga.HadronicResonance=1;          //hadronic resonances for ICH = 1 or 2
Babayaga.FSR_swich=0;                  //FSR switch for ICH = 2 (0 = off, 1 = on)
Babayaga.MinEnerCutG=0.1;              //minimum energy for CUTG = Y (GeV)
Babayaga.MinAngCutG=5;                 //minimum angle for CUTG = Y (deg.)
Babayaga.MaxAngCutG=21;                //maximum angle for CUTG = Y (deg.)

```

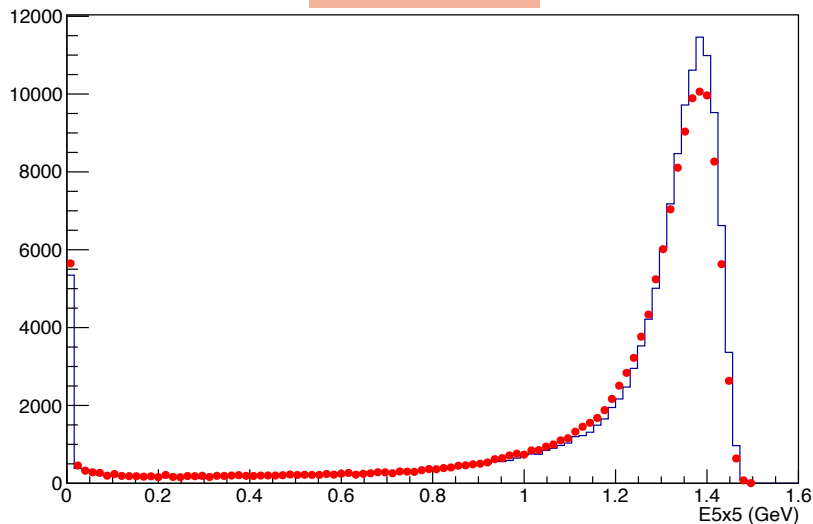
250K events

Same parameters used for CgemBoss665h and Boss665p01

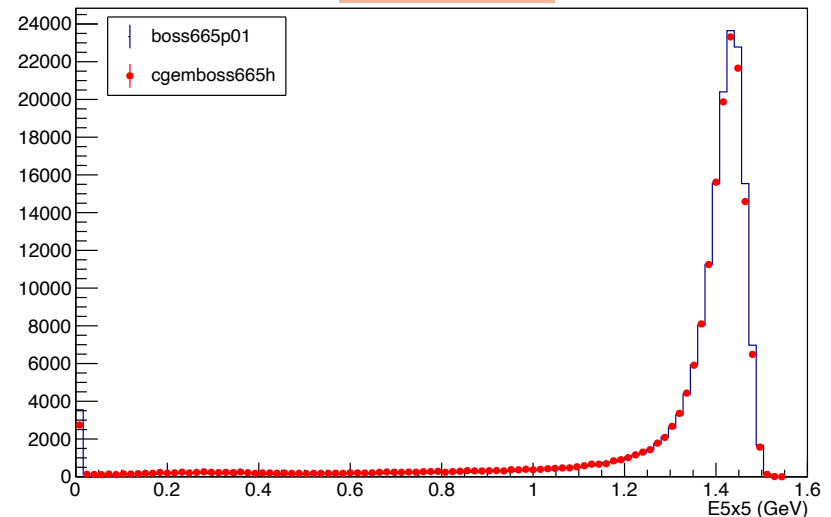
FIRST RESULTS

```
if(!(*itTrk)->isMdcTrackValid()) continue;
RecMdcTrack *mdcTrk = (*itTrk)->mdcTrack();
if((*itTrk)->isEmcShowerValid()){
    RecEmcShower *emcTrk = (*itTrk)->emcShower();
    m_energyDepCh = emcTrk->e5x5();
    m_emc_energyCh = emcTrk->energy();
}
```

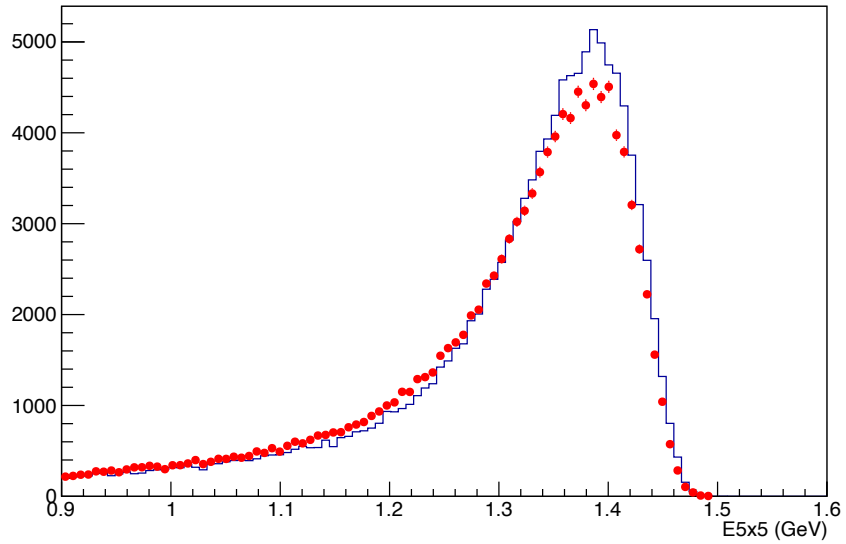
Endcaps



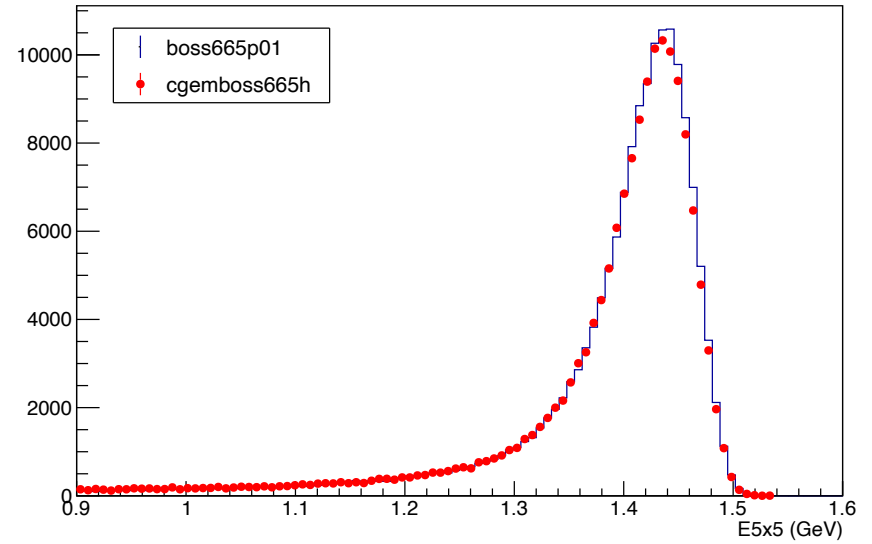
BARREL



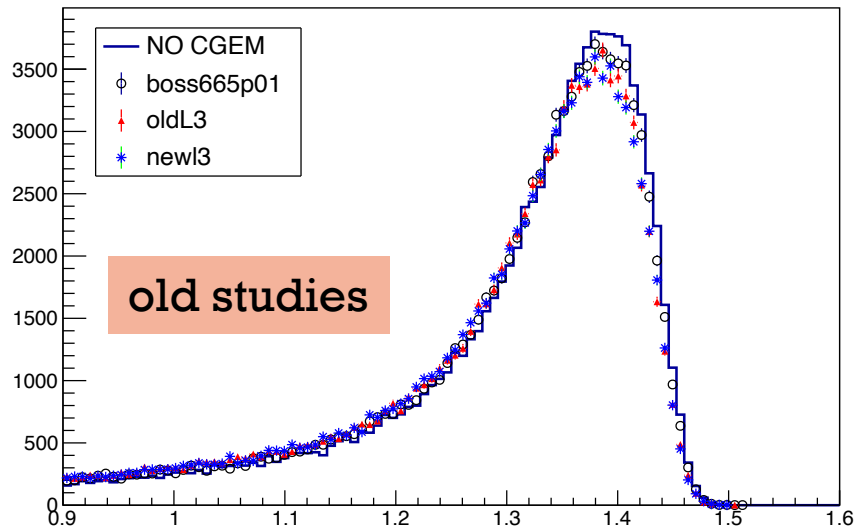
Endcaps



BARREL



hendcaps0



hbarrel0

