OPAL Status – Pre 1.1.4

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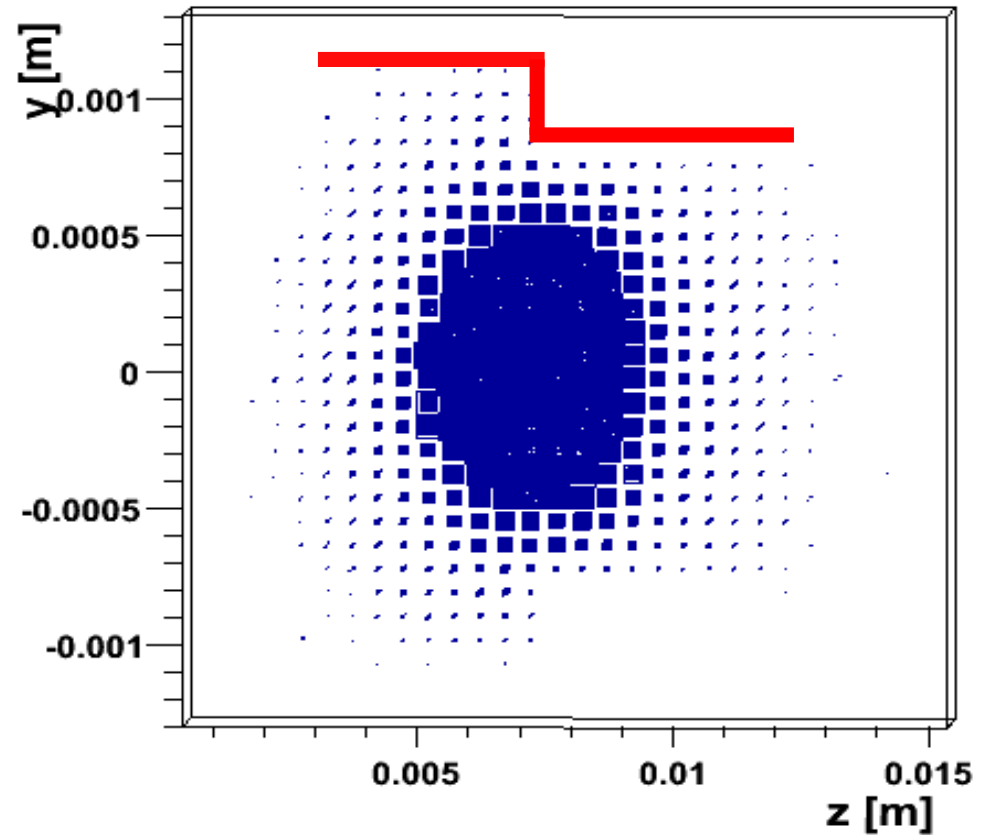## *Christof Kraus, Stefan Binder*

To use the Pre 1.1.4 set:

```
export OPAL_EXE_PATH=~adelmann/bin/opal-pre-1.1.4.new
```

ECollimator

```
Col: ECollimator, L=3.0E-3, ELEMEDGE=7.0E-3,
     XSIZE=7.5E-4, YSIZE=7.5E-4,
     OUTFN="Coll.h5";


l1:  Line = (gun,Col,sp1,sp2,sp3,sp4,sp5);
```

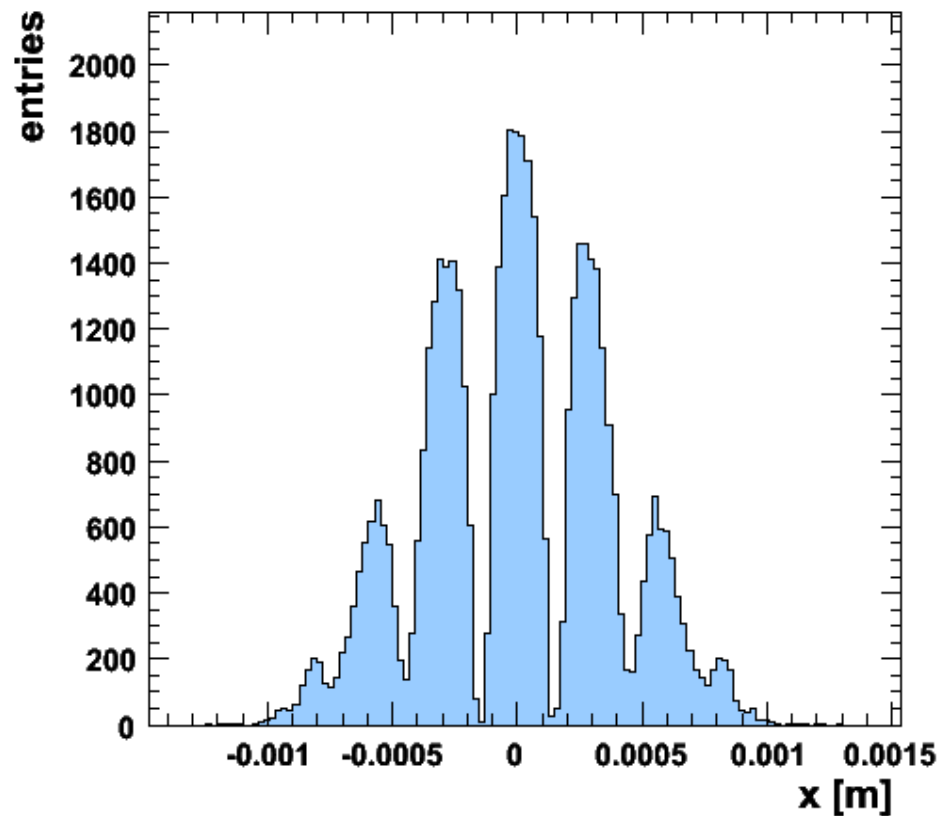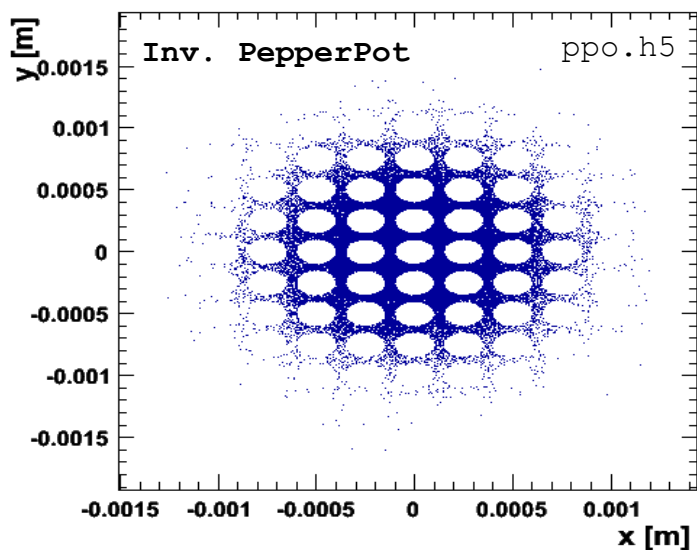No secondary effects

PepperPot

```
Ppo: PepperPot, L=200.0E-6, ELEMEDGE=6.0E-3,
                R=1.0E-4, PITCH=0.5E-4,
                NHOLX=20, NHOLY=20,
                XSIZE=5.0E-3, YSIZE=5.0E-3,
                OUTFN="ppo.h5";;


l1:  Line = (gun,Ppo,sp1,sp2,sp3,sp4,sp5);
```

1D – CSR (& 3D Space Charge)

```
f1: Filter, TYPE="FixedFFTLowPass", NFREQ=9;
f2: Filter, TYPE="Savitzky-Golay", NLEFT=64, NRIGHT=64, POLYORDER=1;


CSRWAKE: Wake, TYPE = "1D-CSR", FILTERS = {f1 };

F10BC_MB01: RBend, L=0.282000, K0=0.1585, FMAPFN="F10BC-MB01.T7",
                   ELEMEDGE=29.964000000, ALPHA=3.035,
                   DESIGNENERGY=247.6, WAKEF=CSRWAKE;
F10BC_MB02: RBend, L=0.282000, K0=-0.1585,  FMAPFN="F10BC-MB01.T7",
                   ELEMEDGE=34.4644203647, ALPHA=-3.035,
                   DESIGNENERGY=247.6, WAKEF=CSRWAKE;
F10BC_MB03: RBend, ....
F10BC_MB04: RBend, ....

BC1:   Line = (F10BC_MB01, F10BC_MB02, F10BC_MB03, F10BC_MB04);
```