Instructions for Displaying the Computer Anatomical Man

The description of this input file can be found in:
NASA CR-134043
http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19730023290_1973023290.pdf

Modify the CAM file as follows:

1. Remove the message statement at the top.
2. Remove the void statement.
3. Remove the vol statement
4. Remove the tally statement
5. Include the surfaces, cells and materials in the input file (do not use the read statements).

To make the 3D ray trace with a cookie cutter:

Increase the dimensions of the enclosing surfaces:

```
1112        s 0 0 89 549
1113        s 0 0 89 550
```

Add cookie cutter surfaces:

```
2000        px 0.001
2001        py -3.001
2002        pz -20
2003        pz 200
2004        cz 100
```

Add cookie cutter cell:

```
10000     0         2000 -2004 2001 -2003 2002
```

In the left plot window set the following:

Plot origin: 0 0 80
Plot extents: 95 95
Plot Basis: -.7071 .7071 0 -.7071 -.7071 0

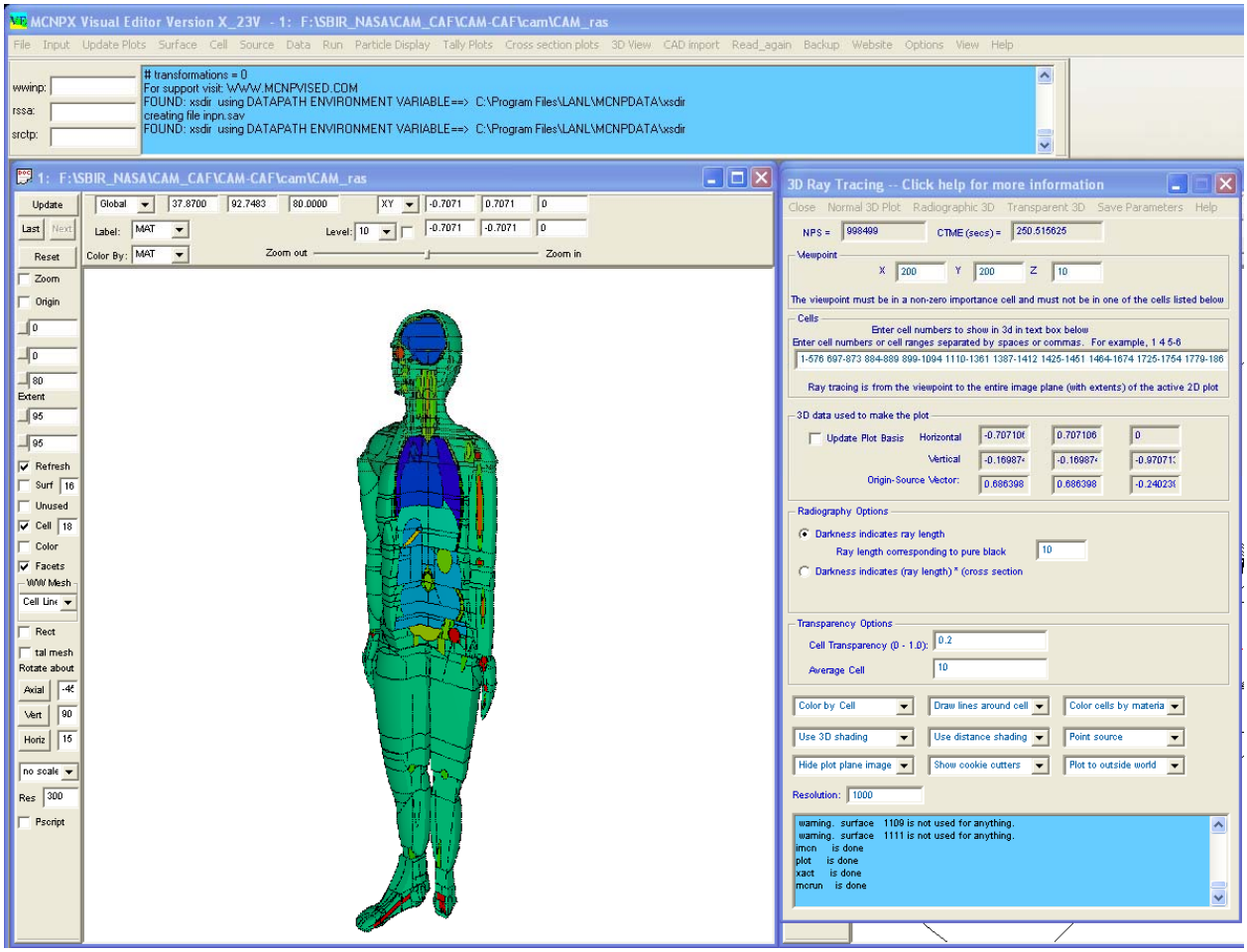
In the 3D Ray Tracing window set the following:

Cell numbers to plot: 1-576 697-873 884-889 899-1094 1110-1361 1387-1412 1425-1451 1464-1674 1725-1754 1779-1866 1875-1932 1949-2004 2013-2068 2094-2252 2278-2436 2444-2458

Select "Show cookie cutters" (bottom middle option)

Set Resolution to 1000

Select Normal 3D Plot:



To create the Radiographic 3D plot:

Select “Darkness indicates (ray length)*(cross section).

Set “Energy of the Source to” :

.06 (Incident energy of the X-ray is 0.06 Mev)

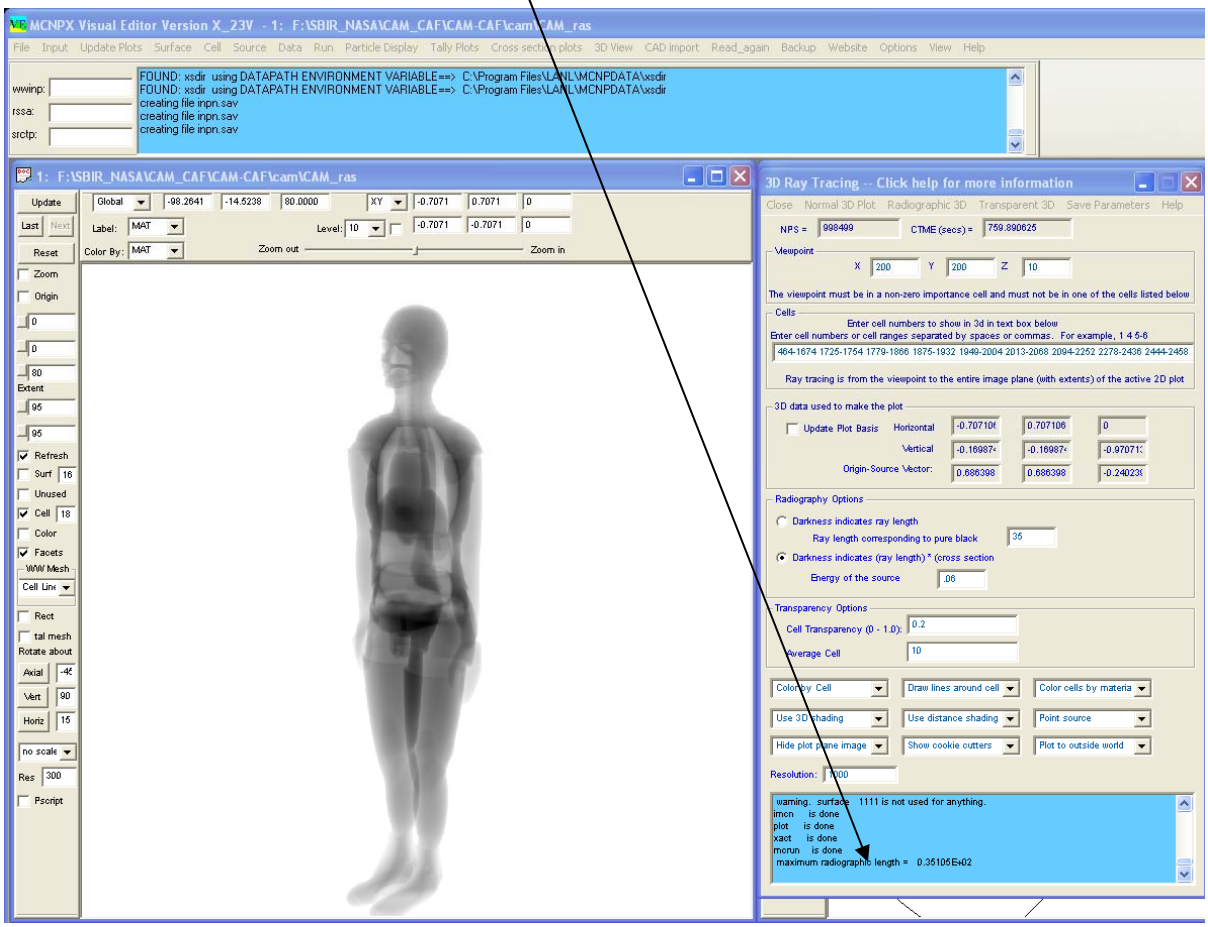
You can change this to get different plots for different incident energies.

Set “Ray length corresponding to pure black” to:

35

This value is calculated after each plot, update this to the value provided by MCNP.

Select Radiographic 3D Plot:



Set the Cell Transparency to:

0.065

Adjust this number so the maximum non-transparency is about 1.0

Set the Average Cell to:

1.64

This value is calculated after each plot, update this to the value provided by MCNP.

Select Transparent 3D Plot: