

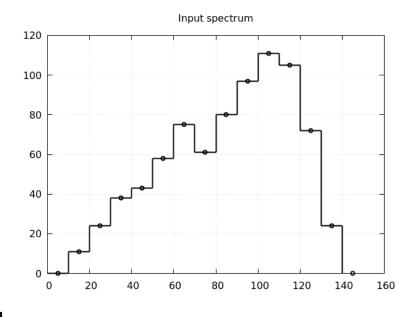
A first example how to use the "new" source routine

#### Case 1

- Electron beam
- Beam origin in (10., 0., 10.)
- Beam directed along the z axis
- Beam momentum uniformly distributed between 105 and 135 MeV
- Divergence in x = 180 mrad; divergence in y = 90 mrad

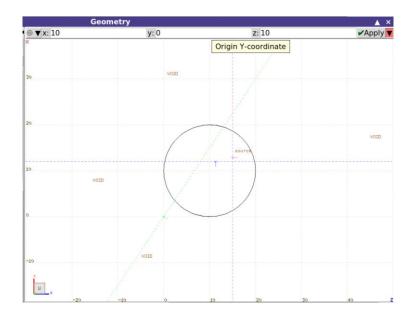
#### Case 2

- Electron beam
- Beam origin in (10., 0., 10.)
- Beam directed at 45 degrees between x and z axes
- Divergence in x = 180 mrad; divergence in y = 90 mrad
- Beam momentum sampled from an histogram (between 0 and 150 MeV)
  histogram is given in the files histo.txt and histo.png



### Geometry

- Everything is in vacuum
- An ideal sphere (R=10cm) enclose
  the beam origin located in (10., 0., 10.)



### **Scoring**

- **USRBIN** scoring of **ALL-PART** fluence (just to see where the beam goes)
- USRBDX scoring of ALL-PART outgoing the ideal sphere

