charged particle

ionization electrons
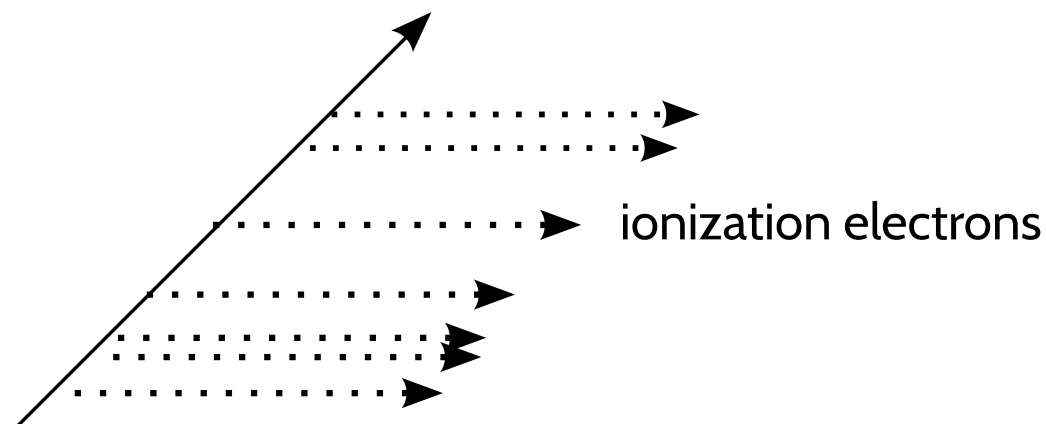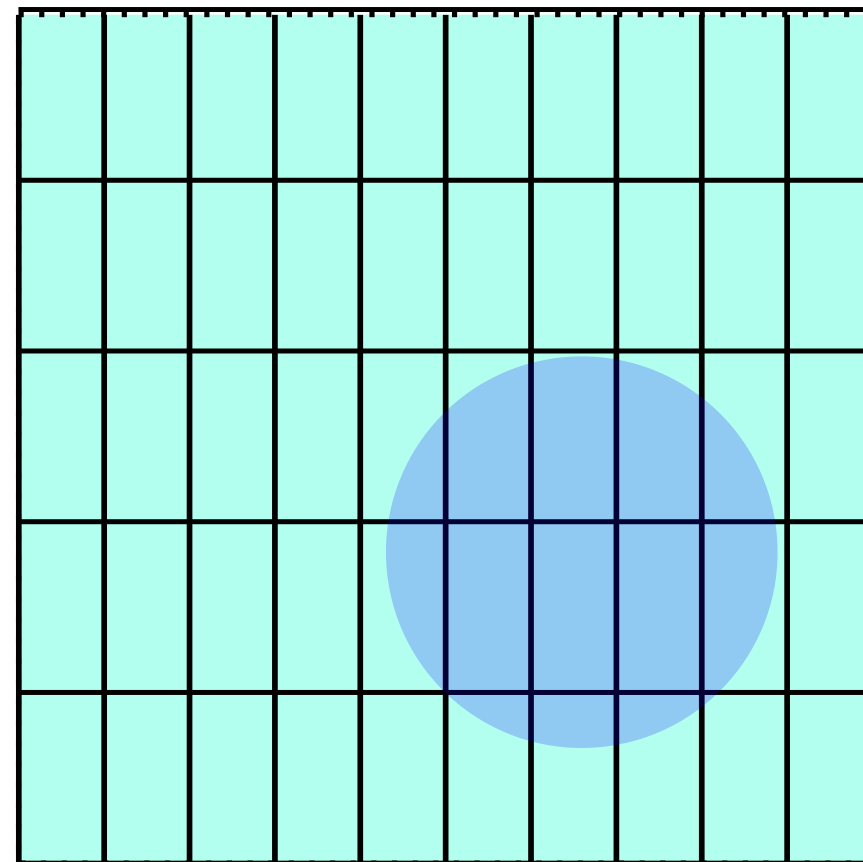
Poisson process done for each
gas "layer"

Currently, clustering is done separately for each pad row,
corresponding to constant radius.  The pad width is the same
as the discretization of the energy deposits in the gas .

On the to-do list to change after the merge!

r-phi pad plane filled with ADC
from number of electrons
( gain tunable through digitizer class )

resolution for hit reconstruction in the z-direction is just mocked up as a single number

In reality, there will be a shaper pulse which gives us timing information

Not sure how much detail we really want to add at this point