Figure 4   tpc_ionization_centers

Locate the crossings within the cells.

CDGEOM layer: "ILCD"

5   4   3   2   1   0   Ncell-1

cell number

(2)   (1)

ϕ_0 is the center of the cell number 0
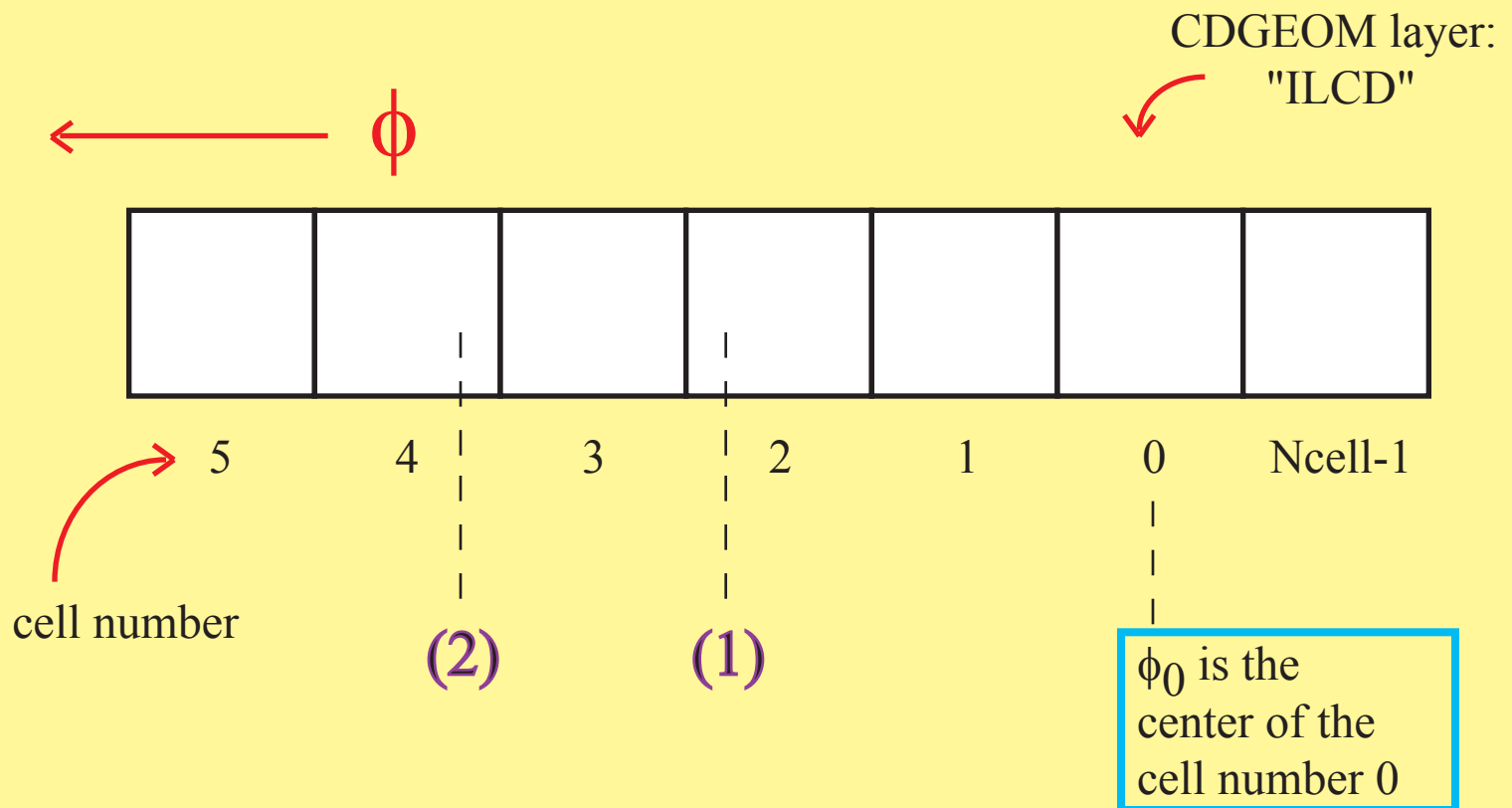
In the example of a track crossing a cylinder at the location **(1)**,
track crossing location is 2.3 (cell widths) relative to the ϕ_0 of the layer.
The ***cell number*** for the crossing is found by rounding to the
nearest integer, ie cell number 2 in this example.
The location of the crossing relative to the "low-ϕ" edge of the cell is
calculated from the residual:
   {"track crossing location" - "cell number" +.5} = 0.8 (cells) .

In example **(2)**, the ***track crossing location*** is 3.7 (cell widths),
the ***cell number*** for the crossing is 4, and
the location of the crossing relative to the "low-ϕ" edge of the cell is 0.3 (cells).