```
Header [80 characters]
x-pitch [um] y-pitch [um] thickness [um] time-slice-step [ps]
<cluster>
x-entry y-entry z-entry n_x n_y n_z number_eh_pairs
<time slice t_1>
pix_00_00 pix_00_01 pix_00_02 ... pix_00_20
pix_01_00 pix_01_01 pix_00_02 ... pix_01_20
...
pix_12_00 pix_12_01 pix_12_02 ... pix_12_20
<time slice t_2>
...
<time slice t_16>
pix_00_00 pix_00_01 pix_00_02 ... pix_00_20
pix_01_00 pix_01_01 pix_00_02 ... pix_01_20
...
...
pix_12_00 pix_12_01 pix_12_02 ... pix_12_20
<cli>cluster>
x-entry y-entry z-entry n_x n_y n_z number_eh_pairs y_module track_q_sign*pT
...
...
```

 $(n_x, n_y, n_z)$  is the track direction. Due to sampling, the pixel charges pix\_yy\_xx must be multiplied by 10 to get total charge = number\_eh\_pairs. The track position at the pixel midplane (x-entry+0.5\*t\*n\_x/n\_z, y-entry+0.5\*t\*n\_y/n\_z, z-entry+0.5\*t\*sign(n\_z)) is always in the 3x3 array about the center pixel pix\_06\_10 [it is uniformly distributed within the 3x3 pixel area]. y\_module is the local y of the track midlpane coordinate in L1 [varies from -8.1 mm to +8.1 mm] and track\_q\_sign\*pT is the product of the track pT and sign of the track charge. Flipped modules have z-entry=0 and  $n_z > 0$ . Unflipped modules have z-entry=100 [um] and  $n_z < 0$ .