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ForwardTOF_HDDS.xml
<section name = "ForwardTOF" version = "2.0" date = "2006-11-22" author = "M. Shepherd, R.T....
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!--DOCTYPE HDDS>
3
4 Hall D Geometry Data Base: Forward TOF counter
5 *****
6
7 version 1.0: Initial version -rtj
8
9 <HDDS specification="v1.0" xmlns="http://www.gluex.org/hdds">
10 -->
11
12 <section name = "ForwardTOF"
13 version = "2.0"
14 date = "2006-11-22"
15 author = "M. Shepherd, R.T. Jones"
16 top_volume = "FTOF"
17 specification = "v1.0">
18
19 <!-- Origin of ForwardTOF is center of entrance plane of detector -->
20
21 <!-- upstream plane has vertical oriented bars -->
22 <!-- downstream plane has horizontal oriented bars -->
23
24 <!-- Fri Jan 16 08:14:30 EST 2009 -->
25 <!-- changed order of paddle counting: 1-40 bottom to top and south to north -->
26 <!-- the half paddles are counted separately 41,43 north halves, 42,44 south halves -->
27
28 <composition name="ForwardTOF">
29 <posXYZ volume="forwardTOF" X_Y_Z="0.0 0.0 1.27" rot="0 0 -90">
30 <plane value="0" />
31 </posXYZ>
32 <posXYZ volume="forwardTOF" X_Y_Z="0.0 0.0 3.85" rot="0 0 0">
33 <plane value="1" />
34 </posXYZ>
35 </composition>
36
37 <composition name="forwardTOF" envelope="FTOF">
38 <posXYZ volume="forwardTOF_bottom" X_Y_Z="0.0 -66.0 0.0" />
39 <posXYZ volume="forwardTOF_north" X_Y_Z="+66.0 0.0 0.0" />
40 <posXYZ volume="forwardTOF_south" X_Y_Z="-66.0 0.0 0.0" />
41 <posXYZ volume="forwardTOF_top" X_Y_Z="0.0 +66.0 0.0" />
42 </composition>
43
44 <!-- the attribute 'row' is synonymous with 'bar' -->
45 <composition name="forwardTOF_top" envelope="FTOT">
46 <mposY volume="FTOC" ncopy="20" Z_X="0.0 0.0" Y0="-57.0" dY="6.00">
47 <row value="21" step="1" />
48 <column value="0" />
49 </mposY>
50 </composition>
51 <composition name="forwardTOF_bottom" envelope="FTOB">
52 <mposY volume="FTOC" ncopy="20" Z_X="0.0 0.0" Y0="-57.00" dY="6.00">
53 <row value="1" step="1" />
54 <column value="0" />
55 </mposY>
56 </composition>
57 <composition name="forwardTOF_north" envelope="FTON">
58 <mposY volume="FTOH" ncopy="2" Z_X = "0.0 0.0" Y0="-3.0" dY="6.0">
59 <row value="42" step="2" />
60 <column value="1" />
61 </mposY>
62 </composition>
63 <composition name="forwardTOF_south" envelope="FTOS">
64 <mposY volume="FTOH" ncopy="2" Z_X="0.0 0.0" Y0="-3.0" dY="6.0">
65 <row value="41" step="2" />
66 <column value="2" />
67 </mposY>
68 </composition>
69
70 <box name="FTOF" X_Y_Z="252.0 252.0 2.55" material="Air" />
71 <box name="FTOB" X_Y_Z="252.0 120.0 2.55" material="Air" />
72 <box name="FTOT" X_Y_Z="252.0 120.0 2.55" material="Air" />
73 <box name="FTON" X_Y_Z="120.0 12.0 2.55" material="Air" />
74 <box name="FTOS" X_Y_Z="120.0 12.0 2.55" material="Air" />
75 <box name="FTOC" X_Y_Z="252.0 6.0 2.54" material="Scintillator"
76 sensitive="true" />
```