Subject: Re: geometry overlaps for PANDA subdetectors Posted by StefanoSpataro on Thu, 01 Aug 2013 13:44:24 GMT View Forum Message <> Reply to Message

I have committed the last geometry and deleted the previous one. Now I can see no internal pipe overlaps, but I can see the overlaps with the other detectors. This is another issue... I update the default macros, to use such geometry (macro/run/sim_complete.C).

As a trace, I copy here the list of overlaps I have w/ all the detectors BUT w/o MVD (MVD takes too long).

root [3] gGeoManager.PrintOverlaps()

=== Overlaps for FAIRGeom ===

= Overlap ov00000: rich01gas extruded by: rich01gas/rich01mirror_0 ovlp=0.1084 = Overlap ov00001: FscModuleVolume extruded by: FscModuleVolume/FscFibHoleVolume 0 ovlp=0.025 = Overlap ov00002: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume 14 ovlp=2.36489 = Overlap ov00003: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume_15 ovlp=2.36489 = Overlap ov00004: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume 20 ovlp=2.36226 = Overlap ov00005: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume 21 ovlp=2.30958 = Overlap ov00006: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume 8 ovlp=1.47 = Overlap ov00007: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume_9 ovlp=1.47 = Overlap ov00008: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume 19 ovlp=1.46991 = Overlap ov00009: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume 13 ovlp=1.46991 = Overlap ov00010: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume 26 ovlp=1.46964 = Overlap ov00011: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume_27 ovlp=1.46964 = Overlap ov00012: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume_16 ovlp=1.46919 = Overlap ov00013: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume_22 ovlp=1.46919 = Overlap ov00014: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume 7 ovlp=1.44823 = Overlap ov00015: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume 10 ovlp=1.44823 = Overlap ov00016: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume 25 ovlp=1.4456 = Overlap ov00017: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume_28 ovlp=1.39292 = Overlap ov00018: FscModuleVolume/FscTyvekVolume 0 overlapping FscModuleVolume/FscFibHoleVolume 2 ovlp=0.553333 = Overlap ov00019: FscModuleVolume/FscTyvekVolume_0 overlapping FscModuleVolume/FscFibHoleVolume 1 ovlp=0.553333

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= Overlap ov00020: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume 3 ovlp=0.553333
= Overlap ov00021: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume_4 ovlp=0.553333
= Overlap ov00022: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume_6 ovlp=0.553243
= Overlap ov00023: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume 12 ovlp=0.553243
= Overlap ov00024: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume_18 ovlp=0.553243
= Overlap ov00025: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume 24 ovlp=0.553243
= Overlap ov00026: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume_33 ovlp=0.552974
= Overlap ov00027: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_34 ovlp=0.552974
= Overlap ov00028: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume 31 ovlp=0.552974
= Overlap ov00029: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_32 ovlp=0.552974
= Overlap ov00030: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume 29 ovlp=0.552526
= Overlap ov00031: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume 11 ovlp=0.552526
= Overlap ov00032: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume 23 ovlp=0.552526
= Overlap ov00033: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_17 ovlp=0.552526
= Overlap ov00034: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume 0 ovlp=0.531561
= Overlap ov00035: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_5 ovlp=0.531561
= Overlap ov00036: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume 30 ovlp=0.528929
= Overlap ov00037: FscModuleVolume/FscTyvekVolume 0 overlapping
FscModuleVolume/FscFibHoleVolume_35 ovlp=0.476252
= Overlap ov00038: stt01assembly/stt01tube_1873 overlapping
stt01assembly/stt01tube1924_0 ovlp=0.273734
= Overlap ov00039: stt01assembly/stt01tube 2099 overlapping
stt01assembly/stt01tube2151_0 ovlp=0.27352
= Overlap ov00040: stt01assembly/stt01tube_1985 overlapping
stt01assembly/stt01tube2036 0 ovlp=0.266989
= Overlap ov00041: stt01assembly/stt01tube 2214 overlapping
stt01assembly/stt01tube2266 0 ovlp=0.266984
= Overlap ov00042: cave/BeamPipe 0/DipolePip 0 overlapping
cave/fts03assembly_1/fts37tube_90 ovlp=0.249504
= Overlap ov00043: cave/BeamPipe_0/DipolePip_0 overlapping
cave/Ftof_strips_0/Ftof_Beam_Strip09_9 ovlp=0.14715
= Overlap ov00044: cave/BeamPipe 0/DipolePip 0 overlapping
cave/Ftof_strips_0/Ftof_Beam_Strip11_11 ovlp=0.14715
= Overlap ov00045: cave/BeamPipe_0/DipolePip_0 overlapping
cave/Ftof_strips_0/Ftof_Beam_Strip10_10 ovlp=0.14715
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= Overlap ov00046: cave/BeamPipe 0/DipolePip 0 overlapping cave/Ftof strips 0/Ftof Central Strip8 8 ovlp=0.138157 = Overlap ov00047: Emc3/SubunitVolFwEndCap 434/BoxVol 4 overlapping Emc3/HalfSubunitVolFwEndCap_28/AlveoleVol_halfsubunit_0 ovlp=0.073979 = Overlap ov00048: Emc3/SubunitVolFwEndCap 134/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_39/AlveoleVol_halfsubunit_0 ovlp=0.073979 = Overlap ov00049: Emc3/SubunitVolFwEndCap_234/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap 45/AlveoleVol halfsubunit 0 ovlp=0.073979 = Overlap ov00050: Emc3/SubunitVolFwEndCap 240/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap_46/AlveoleVol_halfsubunit_0 ovlp=0.0724145 = Overlap ov00051: Emc3/SubunitVolFwEndCap 440/BoxVol 4 overlapping Emc3/HalfSubunitVolFwEndCap 29/AlveoleVol halfsubunit 0 ovlp=0.0724145 = Overlap ov00052: Emc3/SubunitVolFwEndCap 140/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_38/AlveoleVol_halfsubunit_0 ovlp=0.0724145 = Overlap ov00053: Emc3/HalfSubunitVolFwEndCap_5/BoxVol_2 overlapping Emc3/HalfSubunitVolFwEndCap_25/AlveoleVol_halfsubunit_0 ovlp=0.072254 = Overlap ov00054: Emc3/HalfSubunitVolFwEndCap_10/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap 42/AlveoleVol halfsubunit 0 ovlp=0.072254 = Overlap ov00055: Emc3/SubunitVolFwEndCap 405/BoxVol 4 overlapping Emc3/HalfSubunitVolFwEndCap 26/AlveoleVol halfsubunit 0 ovlp=0.0702632 = Overlap ov00056: Emc3/SubunitVolFwEndCap_205/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap 43/AlveoleVol halfsubunit 0 ovlp=0.0702632 = Overlap ov00057: Emc3/SubunitVolFwEndCap 105/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap 41/AlveoleVol halfsubunit 0 ovlp=0.0702632 = Overlap ov00058: Emc3/SubunitVolFwEndCap 305/BoxVol 2 overlapping Emc3/HalfSubunitVolFwEndCap 58/AlveoleVol halfsubunit 0 ovlp=0.0702264 = Overlap ov00059: Emc3/SubunitVolFwEndCap_111/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap_40/AlveoleVol_halfsubunit_0 ovlp=0.0695844 = Overlap ov00060: Emc3/SubunitVolFwEndCap 411/BoxVol 4 overlapping Emc3/HalfSubunitVolFwEndCap_27/AlveoleVol_halfsubunit_0 ovlp=0.0695844 = Overlap ov00061: Emc3/SubunitVolFwEndCap_211/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap 44/AlveoleVol halfsubunit 0 ovlp=0.0695844 = Overlap ov00062: Emc3/SubunitVolFwEndCap 311/BoxVol 2 overlapping Emc3/HalfSubunitVolFwEndCap_57/AlveoleVol_halfsubunit 0 ovlp=0.0695084 = Overlap ov00063: Emc3/SubunitVolFwEndCap 105/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap_42/AlveoleVol_halfsubunit_0 ovlp=0.0677316 = Overlap ov00064: Emc3/SubunitVolFwEndCap_405/BoxVol_2 overlapping Emc3/HalfSubunitVolFwEndCap_25/AlveoleVol_halfsubunit_0 ovlp=0.0677316 = Overlap ov00065: Emc3/SubunitVolFwEndCap 205/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_42/AlveoleVol_halfsubunit_0 ovlp=0.0677316 = Overlap ov00066: Emc3/SubunitVolFwEndCap_305/BoxVol_4 overlapping Emc3/HalfSubunitVolFwEndCap 58/AlveoleVol halfsubunit 0 ovlp=0.0654664 = Overlap ov00067: Emc3/SubunitVolFwEndCap 205/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap 43/AlveoleVol halfsubunit 0 ovlp=0.0654664 = Overlap ov00068: Emc3/SubunitVolFwEndCap 105/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap_41/AlveoleVol_halfsubunit_0 ovlp=0.0654664 = Overlap ov00069: Emc3/SubunitVolFwEndCap_333/BoxVol_2 overlapping Emc3/HalfSubunitVolFwEndCap_55/AlveoleVol_halfsubunit_0 ovlp=0.0638692 = Overlap ov00070: Emc3/SubunitVolFwEndCap_233/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap_46/AlveoleVol_halfsubunit_0 ovlp=0.0638692 = Overlap ov00071: Emc3/SubunitVolFwEndCap_133/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap 38/AlveoleVol halfsubunit 0 ovlp=0.0638692

= Overlap ov00072: Emc3/SubunitVolFwEndCap 411/BoxVol 2 overlapping Emc3/HalfSubunitVolFwEndCap 26/AlveoleVol halfsubunit 0 ovlp=0.0605936 = Overlap ov00073: Emc3/SubunitVolFwEndCap 211/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_43/AlveoleVol_halfsubunit_0 ovlp=0.0605936 = Overlap ov00074: Emc3/SubunitVolFwEndCap 111/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap_41/AlveoleVol_halfsubunit_0 ovlp=0.0605936 = Overlap ov00075: Emc3/SubunitVolFwEndCap_211/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap 44/AlveoleVol halfsubunit 0 ovlp=0.0593387 = Overlap ov00076: Emc3/SubunitVolFwEndCap 111/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap 40/AlveoleVol halfsubunit 0 ovlp=0.0593387 = Overlap ov00077: Emc3/SubunitVolFwEndCap_311/BoxVol_4 overlapping Emc3/HalfSubunitVolFwEndCap 57/AlveoleVol halfsubunit 0 ovlp=0.0593387 = Overlap ov00078: Emc3/SubunitVolFwEndCap 219/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_44/AlveoleVol_halfsubunit_0 ovlp=0.0549224 = Overlap ov00079: Emc3/SubunitVolFwEndCap_419/BoxVol_2 overlapping Emc3/HalfSubunitVolFwEndCap_27/AlveoleVol_halfsubunit_0 ovlp=0.0549224 = Overlap ov00080: Emc3/SubunitVolFwEndCap_119/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap 40/AlveoleVol halfsubunit 0 ovlp=0.0549224 = Overlap ov00081: Emc3/SubunitVolFwEndCap_111/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap_40/BoxVol_1 ovlp=0.0509067 = Overlap ov00082: Emc3/SubunitVolFwEndCap_411/BoxVol_4 overlapping Emc3/HalfSubunitVolFwEndCap 27/BoxVol 1 ovlp=0.0509067 = Overlap ov00083: Emc3/SubunitVolFwEndCap 134/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap 39/BoxVol 1 ovlp=0.0501728 = Overlap ov00084: Emc3/SubunitVolFwEndCap 434/BoxVol 4 overlapping Emc3/HalfSubunitVolFwEndCap_28/BoxVol_1 ovlp=0.0501728 = Overlap ov00085: Emc3/SubunitVolFwEndCap_234/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap_45/BoxVol_2 ovlp=0.0501728 = Overlap ov00086: cave/BeamPipe 0/Tcross 0 overlapping cave/Emc12Hole 9/EmcLayer2Hole 0/emc02r4c5 0 ovlp=0.049205 = Overlap ov00087: cave/BeamPipe_0/Tcross_0 overlapping cave/Emc12Hole 1/EmcLayer2Hole 0/emc02r4c5 0 ovlp=0.049205 = Overlap ov00088: cave/BeamPipe 0/Tcross 0 overlapping cave/Emc12Hole 9/EmcLayer2Hole 0/emc02r1c7 0 ovlp=0.0491724 = Overlap ov00089: cave/BeamPipe 0/Tcross 0 overlapping cave/Emc12Hole_1/EmcLayer2Hole_0/emc02r1c7_0 ovlp=0.0491724 = Overlap ov00090: Emc3/SubunitVolFwEndCap_134/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap_39/AlveoleVol_halfsubunit_0 ovlp=0.0487848 = Overlap ov00091: Emc3/SubunitVolFwEndCap 234/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_45/AlveoleVol_halfsubunit_0 ovlp=0.0487848 = Overlap ov00092: Emc3/SubunitVolFwEndCap_434/BoxVol_2 overlapping Emc3/HalfSubunitVolFwEndCap 28/AlveoleVol halfsubunit 0 ovlp=0.0487848 = Overlap ov00093: Emc3/SubunitVolFwEndCap 105/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap 41/BoxVol 1 ovlp=0.0487751 = Overlap ov00094: Emc3/SubunitVolFwEndCap 334/BoxVol 4 overlapping Emc3/HalfSubunitVolFwEndCap_56/AlveoleVol_halfsubunit_0 ovlp=0.0486073 = Overlap ov00095: Emc3/SubunitVolFwEndCap_240/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap_46/BoxVol_2 ovlp=0.0485797 = Overlap ov00096: Emc3/SubunitVolFwEndCap 140/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_38/BoxVol_1 ovlp=0.0485797 = Overlap ov00097: Emc3/SubunitVolFwEndCap_440/BoxVol_4 overlapping Emc3/HalfSubunitVolFwEndCap 29/BoxVol 1 ovlp=0.0485797

= Overlap ov00098: Emc3/HalfSubunitVolFwEndCap_10/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap 42/BoxVol 1 ovlp=0.04824 = Overlap ov00099: Emc3/HalfSubunitVolFwEndCap 5/BoxVol 2 overlapping Emc3/HalfSubunitVolFwEndCap_25/BoxVol_2 ovlp=0.0479261 = Overlap ov00100: Emc3/HalfSubunitVolFwEndCap 10/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap_42/BoxVol_2 ovlp=0.0479261 = Overlap ov00101: cave/BeamPipe_0/Tcross_0 overlapping cave/stt01assembly 0/stt01box 2 ovlp=0.047887 = Overlap ov00102: cave/BeamPipe 0/Tcross 0 overlapping cave/stt01assembly 0/stt01box 3 ovlp=0.047887 = Overlap ov00103: cave/BeamPipe 0/Tcross 0 overlapping cave/Emc12Hole 1/EmcLayer2Hole 0/emc02r2c7 0 ovlp=0.0464446 = Overlap ov00104: cave/BeamPipe 0/Tcross 0 overlapping cave/Emc12Hole_9/EmcLayer2Hole_0/emc02r2c7_0 ovlp=0.0464446 = Overlap ov00105: Emc3/SubunitVolFwEndCap_305/BoxVol_2 overlapping Emc3/HalfSubunitVolFwEndCap_58/BoxVol_2 ovlp=0.0459602 = Overlap ov00106: Emc3/SubunitVolFwEndCap_205/BoxVol_3 overlapping Emc3/HalfSubunitVolFwEndCap 43/BoxVol 2 ovlp=0.0459602 = Overlap ov00107: Emc3/SubunitVolFwEndCap 105/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap 41/BoxVol 2 ovlp=0.0458743 = Overlap ov00108: Emc3/SubunitVolFwEndCap_405/BoxVol_4 overlapping Emc3/HalfSubunitVolFwEndCap 26/BoxVol 2 ovlp=0.0458743 = Overlap ov00109: Emc3/SubunitVolFwEndCap 205/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap 43/BoxVol 1 ovlp=0.0458743 = Overlap ov00110: stt01assembly/stt01outerCylinder 1 overlapping stt01assembly/stt01box_1 ovlp=0.0456831 = Overlap ov00111: Emc3/SubunitVolFwEndCap_311/BoxVol_2 overlapping Emc3/HalfSubunitVolFwEndCap_57/BoxVol_2 ovlp=0.0453087 = Overlap ov00112: Emc3/SubunitVolFwEndCap 211/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap 44/BoxVol 2 ovlp=0.0453087 = Overlap ov00113: Emc3/SubunitVolFwEndCap_411/BoxVol_4 overlapping Emc3/HalfSubunitVolFwEndCap 27/BoxVol 2 ovlp=0.0451314 = Overlap ov00114: Emc3/SubunitVolFwEndCap 111/BoxVol 1 overlapping Emc3/HalfSubunitVolFwEndCap 40/BoxVol 2 ovlp=0.0451314 = Overlap ov00115: Emc3/SubunitVolFwEndCap 211/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap_44/BoxVol_1 ovlp=0.0451314 = Overlap ov00116: cave/BeamPipe_0/Tcross_0 overlapping cave/Emc12Hole_1/EmcLayer2Hole_0/emc02r3c7_0 ovlp=0.0450102 = Overlap ov00117: cave/BeamPipe 0/Tcross 0 overlapping cave/Emc12Hole_9/EmcLayer2Hole_0/emc02r3c7_0 ovlp=0.0450102 = Overlap ov00118: Emc3/SubunitVolFwEndCap_126/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap 39/AlveoleVol halfsubunit 0 ovlp=0.0449412 = Overlap ov00119: Emc3/SubunitVolFwEndCap 226/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap 45/AlveoleVol halfsubunit 0 ovlp=0.0449412 = Overlap ov00120: Emc3/SubunitVolFwEndCap 326/BoxVol 2 overlapping Emc3/HalfSubunitVolFwEndCap 56/AlveoleVol halfsubunit 0 ovlp=0.0449412 = Overlap ov00121: cave/BeamPipe_0/Tcross_0 overlapping cave/stt01assembly_0/stt01box_1 ovlp=0.0447398 = Overlap ov00122: Emc3/SubunitVolFwEndCap 105/BoxVol 3 overlapping Emc3/HalfSubunitVolFwEndCap_42/BoxVol_1 ovlp=0.0440472 = Overlap ov00123: Emc3/SubunitVolFwEndCap_205/BoxVol_1 overlapping Emc3/HalfSubunitVolFwEndCap_42/BoxVol_2 ovlp=0.0440472

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= Overlap ov00124: Emc3/SubunitVolFwEndCap 405/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap 25/BoxVol 1 ovlp=0.0440472
= Overlap ov00125: Emc3/SubunitVolFwEndCap 205/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap_43/BoxVol_1 ovlp=0.0436612
= Overlap ov00126: Emc3/SubunitVolFwEndCap 305/BoxVol 4 overlapping
Emc3/HalfSubunitVolFwEndCap_58/BoxVol_1 ovlp=0.0436612
= Overlap ov00127: Emc3/SubunitVolFwEndCap_140/BoxVol_3 overlapping
Emc3/HalfSubunitVolFwEndCap 38/AlveoleVol halfsubunit 0 ovlp=0.0420361
= Overlap ov00128: Emc3/SubunitVolFwEndCap 440/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap 29/AlveoleVol halfsubunit 0 ovlp=0.0420361
= Overlap ov00129: Emc3/SubunitVolFwEndCap 240/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap 46/AlveoleVol halfsubunit 0 ovlp=0.0420361
= Overlap ov00130: Emc3/SubunitVolFwEndCap 340/BoxVol 4 overlapping
Emc3/HalfSubunitVolFwEndCap_55/AlveoleVol_halfsubunit_0 ovlp=0.0418211
= Overlap ov00131: Emc3/SubunitVolFwEndCap_105/BoxVol_3 overlapping
Emc3/HalfSubunitVolFwEndCap_41/BoxVol_2 ovlp=0.0418111
= Overlap ov00132: Emc3/SubunitVolFwEndCap_211/BoxVol_1 overlapping
Emc3/HalfSubunitVolFwEndCap 44/BoxVol 1 ovlp=0.0403207
= Overlap ov00133: Emc3/SubunitVolFwEndCap 133/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap 38/BoxVol 2 ovlp=0.0403166
= Overlap ov00134: Emc3/SubunitVolFwEndCap_233/BoxVol_3 overlapping
Emc3/HalfSubunitVolFwEndCap 46/BoxVol 1 ovlp=0.0403166
= Overlap ov00135: Emc3/SubunitVolFwEndCap 333/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap 55/BoxVol 1 ovlp=0.0403166
= Overlap ov00136: Emc3/SubunitVolFwEndCap 311/BoxVol 4 overlapping
Emc3/HalfSubunitVolFwEndCap_57/BoxVol_1 ovlp=0.0402109
= Overlap ov00137: cave/BeamPipe_0/DipolePip_0 overlapping
cave/fts03assembly_1/fts31tube_295 ovlp=0.0390577
= Overlap ov00138: Emc3/SubunitVolFwEndCap 211/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap_43/BoxVol_2 ovlp=0.0368826
= Overlap ov00139: Emc3/SubunitVolFwEndCap 411/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap 26/BoxVol 1 ovlp=0.0368826
= Overlap ov00140: Emc3/SubunitVolFwEndCap 111/BoxVol 3 overlapping
Emc3/HalfSubunitVolFwEndCap_41/BoxVol_1 ovlp=0.0368826
= Overlap ov00141: Emc3/SubunitVolFwEndCap 111/BoxVol 3 overlapping
Emc3/HalfSubunitVolFwEndCap_40/BoxVol_2 ovlp=0.0357086
= Overlap ov00142: stt01assembly/stt01tube_2542 overlapping
stt01assembly/stt01tube2570_0 ovlp=0.0334194
= Overlap ov00143: stt01assembly/stt01tube 2663 overlapping
stt01assembly/stt01tube2691_0 ovlp=0.0334194
= Overlap ov00144: stt01assembly/stt01tube_2305 overlapping
stt01assembly/stt01tube2332 0 ovlp=0.0320374
= Overlap ov00145: stt01assembly/stt01tube 2423 overlapping
stt01assembly/stt01tube2450 0 ovlp=0.0320374
= Overlap ov00146: stt01assembly/stt01tube 2706 overlapping
stt01assembly/stt01tube2732 0 ovlp=0.0318431
= Overlap ov00147: stt01assembly/stt01tube_2585 overlapping
stt01assembly/stt01tube2611_0 ovlp=0.0318412
= Overlap ov00148: Emc3/SubunitVolFwEndCap 419/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap_27/BoxVol_1 ovlp=0.0311839
= Overlap ov00149: Emc3/SubunitVolFwEndCap_219/BoxVol_1 overlapping
Emc3/HalfSubunitVolFwEndCap_44/BoxVol_2 ovlp=0.0311839
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= Overlap ov00150: Emc3/SubunitVolFwEndCap 119/BoxVol 3 overlapping
Emc3/HalfSubunitVolFwEndCap 40/BoxVol 1 ovlp=0.0311839
= Overlap ov00151: stt01assembly/stt01tube 2190 overlapping
stt01assembly/stt01tube2216_0 ovlp=0.0306549
= Overlap ov00152: stt01assembly/stt01tube 2075 overlapping
stt01assembly/stt01tube2101_0 ovlp=0.0306549
= Overlap ov00153: stt01assembly/stt01tube_2465 overlapping
stt01assembly/stt01tube2490 0 ovlp=0.0304593
= Overlap ov00154: stt01assembly/stt01tube 2347 overlapping
stt01assembly/stt01tube2372 0 ovlp=0.0304574
= Overlap ov00155: stt01assembly/stt01tube 1962 overlapping
stt01assembly/stt01tube1987 0 ovlp=0.0292729
= Overlap ov00156: stt01assembly/stt01tube 1850 overlapping
stt01assembly/stt01tube1875_0 ovlp=0.0292729
= Overlap ov00157: stt01assembly/stt01tube 2624 overlapping
stt01assembly/stt01tube2650_0 ovlp=0.0282992
= Overlap ov00158: stt01assembly/stt01tube_2503 overlapping
stt01assembly/stt01tube2529 0 ovlp=0.0282973
= Overlap ov00159: stt01assembly/stt01tube 2114 overlapping
stt01assembly/stt01tube2137 0 ovlp=0.0276908
= Overlap ov00160: stt01assembly/stt01tube_2229 overlapping
stt01assembly/stt01tube2252 0 ovlp=0.0276908
= Overlap ov00161: cave/BeamPipe 0/DipolePip 0 overlapping
cave/Ftof strips 0/Ftof Central Strip14 14 ovlp=0.0272523
= Overlap ov00162: cave/BeamPipe 0/DipolePip 0 overlapping
cave/Ftof_strips_0/Ftof_Central_Strip13_13 ovlp=0.0272523
= Overlap ov00163: stt01assembly/stt01tube 2385 overlapping
stt01assembly/stt01tube2410_0 ovlp=0.0269206
= Overlap ov00164: stt01assembly/stt01tube_2267 overlapping
stt01assembly/stt01tube2292_0 ovlp=0.0269187
= Overlap ov00165: stt01assembly/stt01tube 1741 overlapping
stt01assembly/stt01tube1764 0 ovlp=0.0265086
= Overlap ov00166: stt01assembly/stt01tube 1635 overlapping
stt01assembly/stt01tube1658_0 ovlp=0.0265086
= Overlap ov00167: stt01assembly/stt01tube 1888 overlapping
stt01assembly/stt01tube1910_0 ovlp=0.0263069
= Overlap ov00168: stt01assembly/stt01tube_2000 overlapping
stt01assembly/stt01tube2022_0 ovlp=0.0263069
= Overlap ov00169: Emc3/SubunitVolFwEndCap_134/BoxVol_3 overlapping
Emc3/HalfSubunitVolFwEndCap_39/BoxVol_1 ovlp=0.0251848
= Overlap ov00170: stt01assembly/stt01tube_1531 overlapping
stt01assembly/stt01tube1553 0 ovlp=0.0251265
= Overlap ov00171: stt01assembly/stt01tube 1428 overlapping
stt01assembly/stt01tube1450 0 ovlp=0.0251265
= Overlap ov00172: stt01assembly/stt01tube 1779 overlapping
stt01assembly/stt01tube1800_0 ovlp=0.0249233
= Overlap ov00173: stt01assembly/stt01tube_1673 overlapping
stt01assembly/stt01tube1694_0 ovlp=0.0249214
= Overlap ov00174: Emc3/SubunitVolFwEndCap 234/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap_45/BoxVol_2 ovlp=0.0245832
= Overlap ov00175: Emc3/SubunitVolFwEndCap_334/BoxVol_4 overlapping
Emc3/HalfSubunitVolFwEndCap_56/BoxVol_2 ovlp=0.0245832
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= Overlap ov00176: Emc3/SubunitVolFwEndCap 434/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap 28/BoxVol 2 ovlp=0.0241691
= Overlap ov00177: Emc3/SubunitVolFwEndCap 134/BoxVol 3 overlapping
Emc3/HalfSubunitVolFwEndCap_39/BoxVol_2 ovlp=0.0241691
= Overlap ov00178: Emc3/SubunitVolFwEndCap 234/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap_45/BoxVol_1 ovlp=0.0241691
= Overlap ov00179: stt01assembly/stt01tube_2037 overlapping
stt01assembly/stt01tube2060 0 ovlp=0.0241626
= Overlap ov00180: stt01assembly/stt01tube 2152 overlapping
stt01assembly/stt01tube2175_0 ovlp=0.0241626
= Overlap ov00181: stt01assembly/stt01tube 1328 overlapping
stt01assembly/stt01tube1349 0 ovlp=0.0237442
= Overlap ov00182: stt01assembly/stt01tube 1228 overlapping
stt01assembly/stt01tube1249_0 ovlp=0.0237442
= Overlap ov00183: stt01assembly/stt01tube 1568 overlapping
stt01assembly/stt01tube1588_0 ovlp=0.0235393
= Overlap ov00184: stt01assembly/stt01tube_1465 overlapping
stt01assembly/stt01tube1485 0 ovlp=0.0235374
= Overlap ov00185: stt01assembly/stt01tube 1813 overlapping
stt01assembly/stt01tube1835 0 ovlp=0.0227838
= Overlap ov00186: stt01assembly/stt01tube_1925 overlapping
stt01assembly/stt01tube1947 0 ovlp=0.0227838
= Overlap ov00187: stt01assembly/stt01tube 1130 overlapping
stt01assembly/stt01tube1150 0 ovlp=0.022362
= Overlap ov00188: stt01assembly/stt01tube 1033 overlapping
stt01assembly/stt01tube1053 0 ovlp=0.022362
= Overlap ov00189: stt01assembly/stt01tube_1707 overlapping
stt01assembly/stt01tube1728_0 ovlp=0.0214055
= Overlap ov00190: stt01assembly/stt01tube 1601 overlapping
stt01assembly/stt01tube1622 0 ovlp=0.0214036
= Overlap ov00191: Emc3/SubunitVolFwEndCap 326/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap_56/BoxVol_1 ovlp=0.0209979
= Overlap ov00192: Emc3/SubunitVolFwEndCap 226/BoxVol 3 overlapping
Emc3/HalfSubunitVolFwEndCap 45/BoxVol 1 ovlp=0.0209979
= Overlap ov00193: Emc3/SubunitVolFwEndCap 126/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap_39/BoxVol_2 ovlp=0.0209979
= Overlap ov00194: stt01assembly/stt01tube_1262 overlapping
stt01assembly/stt01tube1280_0 ovlp=0.0207708
= Overlap ov00195: stt01assembly/stt01tube 1362 overlapping
stt01assembly/stt01tube1380 0 ovlp=0.0207708
= Overlap ov00196: stt01assembly/stt01tube_1498 overlapping
stt01assembly/stt01tube1518 0 ovlp=0.0200266
= Overlap ov00197: stt01assembly/stt01tube 1395 overlapping
stt01assembly/stt01tube1415 0 ovlp=0.0200247
= Overlap ov00198: stt01assembly/stt01tube 1066 overlapping
stt01assembly/stt01tube1083 0 ovlp=0.0193869
= Overlap ov00199: stt01assembly/stt01tube_1163 overlapping
stt01assembly/stt01tube1180_0 ovlp=0.0193869
= Overlap ov00200: Emc3/SubunitVolFwEndCap 140/BoxVol 3 overlapping
Emc3/HalfSubunitVolFwEndCap_38/BoxVol_1 ovlp=0.0185884
= Overlap ov00201: Emc3/SubunitVolFwEndCap_340/BoxVol_4 overlapping
Emc3/HalfSubunitVolFwEndCap_55/BoxVol_2 ovlp=0.0178632
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= Overlap ov00202: Emc3/SubunitVolFwEndCap 240/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap 46/BoxVol 2 ovlp=0.0178632
= Overlap ov00203: Emc3/SubunitVolFwEndCap 240/BoxVol 1 overlapping
Emc3/HalfSubunitVolFwEndCap_46/BoxVol_1 ovlp=0.0173616
= Overlap ov00204: Emc3/SubunitVolFwEndCap 440/BoxVol 2 overlapping
Emc3/HalfSubunitVolFwEndCap_29/BoxVol_2 ovlp=0.0173616
= Overlap ov00205: Emc3/SubunitVolFwEndCap_140/BoxVol_3 overlapping
Emc3/HalfSubunitVolFwEndCap 38/BoxVol 2 ovlp=0.0173616
= Overlap ov00206: stt01assembly/stt01tube 1195 overlapping
stt01assembly/stt01tube1213 0 ovlp=0.0172684
= Overlap ov00207: stt01assembly/stt01tube 1295 overlapping
stt01assembly/stt01tube1313 0 ovlp=0.0172684
= Overlap ov00208: stt01assembly/stt01tube 1001 overlapping
stt01assembly/stt01tube1018_0 ovlp=0.0158895
= Overlap ov00209: stt01assembly/stt01tube 1098 overlapping
stt01assembly/stt01tube1115_0 ovlp=0.0158895
= Overlap ov00210: Emc3/SubunitVolFwEndCap_405/BoxVol_4 overlapping
Emc3/HalfSubunitVolFwEndCap 26/BoxVol 1 ovlp=0.0142737
= Overlap ov00211: Emc3/SubunitVolFwEndCap 334/BoxVol 4 overlapping
Emc3/HalfSubunitVolFwEndCap 56/BoxVol 1 ovlp=0.0121789
= Overlap ov00212: stt01assembly/stt01tube2410_0 overlapping
stt01assembly/stt01tube 2624 ovlp=0.0117254
= Overlap ov00213: stt01assembly/stt01tube2292 0 overlapping
stt01assembly/stt01tube 2503 ovlp=0.0117253
= Overlap ov00214: stt01assembly/stt01tube2332 0 overlapping
stt01assembly/stt01tube_2542 ovlp=0.010436
= Overlap ov00215: stt01assembly/stt01tube2450_0 overlapping
stt01assembly/stt01tube_2663 ovlp=0.010436
= Overlap ov00216: stt01assembly/stt01tube1947 0 overlapping
stt01assembly/stt01tube 2152 ovlp=0.00992221
= Overlap ov00217: stt01assembly/stt01tube1835 0 overlapping
stt01assemblv/stt01tube 2037 ovlp=0.00992071
= Overlap ov00218: Emc3/SubunitVolFwEndCap 140/AlveoleVol subunit 0 overlapping
Emc3/HalfSubunitVolFwEndCap_38/BoxVol_1 ovlp=0.00985257
= Overlap ov00219: stt01assembly/stt01tube2372 0 overlapping
stt01assembly/stt01tube_2585 ovlp=0.00953153
= Overlap ov00220: stt01assembly/stt01tube2490_0 overlapping
stt01assembly/stt01tube_2706 ovlp=0.00953153
= Overlap ov00221: stt01assembly/stt01outerCylinder 2 overlapping
stt01assembly/stt01box_2 ovlp=0.00905095
= Overlap ov00222: stt01assembly/stt01outerCylinder_1 overlapping
stt01assembly/stt01box 3 ovlp=0.00905095
= Overlap ov00223: stt01assembly/stt01outerCylinder 2 overlapping
stt01assembly/stt01box 4 ovlp=0.00905095
= Overlap ov00224: cave/BeamPipe 0/pipeTSdown 0 overlapping
cave/Gem_Disks_0/Gem_Disk1_Volume_0 ovlp=0.00901905
= Overlap ov00225: stt01assembly/stt01tube1875 0 overlapping
stt01assembly/stt01tube_2075 ovlp=0.00891698
= Overlap ov00226: stt01assembly/stt01tube1987 0 overlapping
stt01assembly/stt01tube 2190 ovlp=0.00891698
= Overlap ov00227: stt01assembly/stt01tube1518_0 overlapping
stt01assembly/stt01tube 1707 ovlp=0.00870523
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= Overlap ov00228: stt01assembly/stt01tube1415 0 overlapping stt01assembly/stt01tube 1601 ovlp=0.00870518 = Overlap ov00229: stt01assembly/stt01tube1910 0 overlapping stt01assembly/stt01tube_2114 ovlp=0.00785795 = Overlap ov00230: stt01assembly/stt01tube2022 0 overlapping stt01assembly/stt01tube 2229 ovlp=0.00785785 = Overlap ov00231: stt01assembly/stt01tube1115_0 overlapping stt01assembly/stt01tube 1295 ovlp=0.00685506 = Overlap ov00232: stt01assembly/stt01tube1018 0 overlapping stt01assembly/stt01tube 1195 ovlp=0.00685353 = Overlap ov00233: stt01assembly/stt01tube1485_0 overlapping stt01assembly/stt01tube 1673 ovlp=0.0067259 = Overlap ov00234: stt01assembly/stt01tube1588 0 overlapping stt01assembly/stt01tube_1779 ovlp=0.0067259 = Overlap ov00235: cave/BeamPipe_0/Tcross_0 overlapping cave/stt01assembly_0/stt01tube2070_0 ovlp=0.00672061 = Overlap ov00236: stt01assembly/stt01tube1450_0 overlapping stt01assembly/stt01tube 1635 ovlp=0.00661876 = Overlap ov00237: stt01assembly/stt01tube1553_0 overlapping stt01assembly/stt01tube 1741 ovlp=0.00661876 = Overlap ov00238: stt01assembly/stt01tube1053_0 overlapping stt01assembly/stt01tube 1228 ovlp=0.00507301 = Overlap ov00239: stt01assembly/stt01tube1150 0 overlapping stt01assembly/stt01tube 1328 ovlp=0.00507301 = Overlap ov00240: cave/BeamPipe 0/Tcross 0 overlapping cave/stt01assembly_0/stt01tube1845_0 ovlp=0.00501348 = Overlap ov00241: stt01assembly/stt01tube1083_0 overlapping stt01assembly/stt01tube_1262 ovlp=0.00500404 = Overlap ov00242: stt01assembly/stt01tube1180 0 overlapping stt01assembly/stt01tube 1362 ovlp=0.00500392 = Overlap ov00243: cave/BeamPipe 0/Tcross 0 overlapping cave/stt01assembly 0/stt01tube2185 0 ovlp=0.003921 = Overlap ov00244: Emc3/SubunitVolFwEndCap 340/BoxVol 4 overlapping Emc3/HalfSubunitVolFwEndCap_55/BoxVol_1 ovlp=0.00276907 = Overlap ov00245: cave/BeamPipe 0/Tcross 0 overlapping cave/stt01assembly_0/stt01tube1957_0 ovlp=0.00220847

Page 10 of 10 ---- Generated from GSI Forum