
Subject: Re: geometry overlaps for PANDA subdetectors
Posted by [StefanoSpataro](#) on Thu, 18 Jul 2013 17:53:21 GMT
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This is the list I obtain:

```
root [2] gGeoManager->PrintOverlaps()
=== Overlaps for FAIRGeom ===
= Overlap ov00000: rich01gas extruded by: rich01gas/rich01mirror_0 ovlp=0.1084
= Overlap ov00001: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_14 ovlp=2.36489
= Overlap ov00002: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_15 ovlp=2.36489
= Overlap ov00003: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_20 ovlp=2.36226
= Overlap ov00004: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_21 ovlp=2.30958
= Overlap ov00005: ms/md05_2 overlapping ms/md07_1 ovlp=1.86286
= Overlap ov00006: ms/md05_3 overlapping ms/md07_2 ovlp=1.86286
= Overlap ov00007: ms/md05_1 overlapping ms/md07_1 ovlp=1.86286
= Overlap ov00008: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_9 ovlp=1.47
= Overlap ov00009: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_8 ovlp=1.47
= Overlap ov00010: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_13 ovlp=1.46991
= Overlap ov00011: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_19 ovlp=1.46991
= Overlap ov00012: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_26 ovlp=1.46964
= Overlap ov00013: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_27 ovlp=1.46964
= Overlap ov00014: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_16 ovlp=1.46919
= Overlap ov00015: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_22 ovlp=1.46919
= Overlap ov00016: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_7 ovlp=1.44823
= Overlap ov00017: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_10 ovlp=1.44823
= Overlap ov00018: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_25 ovlp=1.4456
= Overlap ov00019: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_28 ovlp=1.39292
= Overlap ov00020:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_1/Cryostatov830
o2_1/Supporto4oPartAss_1/Supporto4_1 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s110b0w0_1 ovlp=0.846021
= Overlap ov00021:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_2/Cryostatov830
o2_2/Supporto4oPartAss_2/Supporto4_2 overlapping
```

cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s5l0b0w0_5 ovlp=0.846021
= Overlap ov00022:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_2/Cryostatov830
o2_2/Supporto2oPartAss_2/Supporto2_2 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s5l0b0w0_5 ovlp=0.84602
= Overlap ov00023:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_1/Cryostatov830
o2_1/Supporto2oPartAss_1/Supporto2_1 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s1l0b0w0_1 ovlp=0.84602
= Overlap ov00024:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_1/Cryostatov830
o2_1/Supporto2oPartAss_1/Supporto2_1 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s0l0b0w0_0 ovlp=0.751859
= Overlap ov00025:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_2/Cryostatov830
o2_2/Supporto2oPartAss_2/Supporto2_2 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s4l0b0w0_4 ovlp=0.600122
= Overlap ov00026:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_2/Cryostatov830
o2_2/Supporto6oPartAss_2/Supporto6_2 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s6l0b0w0_6 ovlp=0.600122
= Overlap ov00027:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_1/Cryostatov830
o2_1/Supporto6oPartAss_1/Supporto6_1 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s2l0b0w0_2 ovlp=0.600122
= Overlap ov00028:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_2/Cryostatov830
o2_2/Supporto6oPartAss_2/Supporto6_2 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s3l0b0w0_3 ovlp=0.600121
= Overlap ov00029:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_1/Cryostatov830
o2_1/Supporto6oPartAss_1/Supporto6_1 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s7l0b0w0_7 ovlp=0.600121
= Overlap ov00030:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_1/Cryostatov830
o2_1/Supporto4oPartAss_1/Supporto4_1 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s2l0b0w0_2 ovlp=0.600121
= Overlap ov00031:
cave/FullSuperConductingSolenoidov831_0/SuperconductingSolenoidov831_2/Cryostatov830
o2_2/Supporto4oPartAss_2/Supporto4_2 overlapping
cave/Mdt_1/MdtBarrel_1/MdtBarrelLayer00_1/MDT1s6l0b0w0_6 ovlp=0.600121
= Overlap ov00032: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_2 ovlp=0.553333
= Overlap ov00033: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_4 ovlp=0.553333
= Overlap ov00034: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_3 ovlp=0.553333
= Overlap ov00035: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_1 ovlp=0.553333
= Overlap ov00036: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_18 ovlp=0.553243
= Overlap ov00037: FscModuleVolume/FscTyvekVolume_0 overlapping

FscModuleVolume/FscFibHoleVolume_12 ovlp=0.553243
= Overlap ov00038: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_6 ovlp=0.553243
= Overlap ov00039: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_24 ovlp=0.553243
= Overlap ov00040: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_34 ovlp=0.552974
= Overlap ov00041: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_31 ovlp=0.552974
= Overlap ov00042: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_32 ovlp=0.552974
= Overlap ov00043: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_33 ovlp=0.552974
= Overlap ov00044: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_23 ovlp=0.552526
= Overlap ov00045: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_17 ovlp=0.552526
= Overlap ov00046: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_29 ovlp=0.552526
= Overlap ov00047: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_11 ovlp=0.552526
= Overlap ov00048: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_0 ovlp=0.531561
= Overlap ov00049: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_5 ovlp=0.531561
= Overlap ov00050: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_30 ovlp=0.528929
= Overlap ov00051: FscModuleVolume/FscTyvekVolume_0 overlapping
FscModuleVolume/FscFibHoleVolume_35 ovlp=0.476252
= Overlap ov00052: stt01assembly/stt01tube_1873 overlapping
stt01assembly/stt01tube1924_0 ovlp=0.273734
= Overlap ov00053: stt01assembly/stt01tube_2099 overlapping
stt01assembly/stt01tube2151_0 ovlp=0.27352
= Overlap ov00054: stt01assembly/stt01tube_1985 overlapping
stt01assembly/stt01tube2036_0 ovlp=0.266989
= Overlap ov00055: stt01assembly/stt01tube_2214 overlapping
stt01assembly/stt01tube2266_0 ovlp=0.266984
= Overlap ov00056:
Mvd-2.1oSupport/Mvd-SupportoGlobalFrame_1/GsupoFrameoCylinderoXsoPartAss_1/Gsupo
FrameoCylinderoXs_1 overlapping
Mvd-2.1oSupport/Mvd-SupportoSfwd_1/StripoFwdoSupportoRingoPartAss_2/StripoFwdoSupp
ortoRing_1 ovlp=0.2
= Overlap ov00057: cave/BeamPipe_0/DipolePip_0 overlapping
cave/Ftof_strips_0/Ftof_Central_Strip14_14 ovlp=0.146051
= Overlap ov00058: cave/BeamPipe_0/DipolePip_0 overlapping
cave/Ftof_strips_0/Ftof_Central_Strip13_13 ovlp=0.146051
= Overlap ov00059: cave/BeamPipe_0/DipolePip_0 overlapping
cave/Ftof_strips_0/Ftof_Beam_Strip10_10 ovlp=0.109065
= Overlap ov00060: cave/BeamPipe_0/DipolePip_0 overlapping
cave/Ftof_strips_0/Ftof_Beam_Strip11_11 ovlp=0.109065
= Overlap ov00061: cave/BeamPipe_0/DipolePip_0 overlapping
cave/Ftof_strips_0/Ftof_Beam_Strip09_9 ovlp=0.109065
