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Subject: Release DEC08: Geometries

Posted by [Volker Friese](#) on Mon, 01 Dec 2008 15:43:51 GMT

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For the release DEC08, it seems desirable to clean up the geometry directory and remove obsolete geometry files. I try to summarise the current situation, together with some proposals.

MVD: There are two geometry versions, one with two stations (standard) and the other one with three stations. The material budget is 150 mm per station.

In the light of our nowadays knowledge on MAPS, I think a more realistic material budget should be used.

STS: The current standard is 2 pixel + 6 strip stations, which is by now obsolete. The STS group decided to make the 8 strip version the new standard (former: sts\_allstrips.geo). We will keep the old one as reference for the next release (sts\_hybrid.geo). Both versions are available with additional material for readout and support. Since the implementation of this is rather tentative, and a better one will be available soon, we will leave the passive material still out for the standard geometry.

RICH: The compact RICH version has been validated sufficiently to make it the new standard. The old one will be kept as reference (rich\_large.geo). The files rich.geo, rich\_He+CH4.geo, rich\_L2900-N2-angleM0-angleD0.geo, rich\_N2+CH4.geo, and rich\_N2.geo are considered obsolete and will be removed.

MUCH: No changes for the available two geometry versions (standard: full system, for charmonium; compact: without last absorber, for low-mass dimuons.)

TRD: There are many geometry files in the repository. The TRD group is requested to identify the relevant ones and remove all others.

TOF: The standard did not change (since two years, by the way.) There is an additional file named tof\_010906.geo. I shall ask the TOF group to qualify this geometry in a better way, or remove it.

ECAL: The two files ecal\_FullMC.geo and ecal\_FastMC.geo have also not changed over two years. Is the new geometry presented at the recent collaboration meeting mature enough to be put into the repository?

PSD: There is no .geo file; the PSD geometry is created in the code.

Magnet: The magnet\_muon.geo has become the standard. This should be reflected in a new file name (magnet\_standard.geo). All other magnet geometries are by now obsolete and should be removed.

Pipe: Of the many geometry files in the repository, three should remain: pipe\_rich\_standard.geo (compatible with rich\_standard), pipe\_rich\_large.geo (compatible with rich\_large), and pipe\_much.geo (compatible with MUCH). All other versions should disappear.

[\*] Pipe shielding: The two versions corresponding to much\_standard and much\_compact will stay as they are.

Target: We only have one target geometry (250 mum Au). Do we need a thinner one, too (25 mum)?

I would like to hear your opinions.

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