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Subject: Measuring in GUI or with root-to-step

Posted by [Lars Schmitt](#) on Thu, 14 Jan 2010 13:58:00 GMT

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Hi Mohammad and others,

Bernd is looking for a way to crosscheck the geometry of detectors in PANDARoot with the "official" mechanical layout. I vaguely remember that you mentioned that someone is developing a root-to-step converter to load the geometry in a CAD program. Essentially the need would be to be able to measure arbitrary points, edges or planes of the complete geometry. CAD programs have this built in. So a measurement and comparison would be straightforward. Or is there a GUI toolkit to do this within ROOT?

Cheers,

Lars

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Subject: Re: Measuring in GUI or with root-to-step

Posted by [Mohammad Al-Turany](#) on Thu, 14 Jan 2010 16:49:04 GMT

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Hi,

What we have is only the CAD to ROOT converter written by Tobias, the opposite direction does not exist for us or any other experiment. At CERN there is now a student working on the conversion ROOT to CAD. They ask us if we can collaborate with them but we did not see any real use case at that time and non of us (Tobias and me) have really time to take care of such a thing.

Measuring arbitrary points and planes in ROOT is not foreseen, and me personally I don't know about anything in ROOT in this direction. In the TGeo description of geometry you have only volumes in hierarchical structure and you could only get the volume parameters and rotation and transportation matrices but I think this is not what you need.

regards

Mohammad

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