Subject: Measuring in GUI or with root-to-step
Posted by Lars Schmitt on Thu, 14 Jan 2010 13:58:00 GMT
View Forum Message <> Reply to Message

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 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

Subject: Re: Measuring in GUI or with root-to-step
Posted by Mohammad Al-Turany on Thu, 14 Jan 2010 16:49:04 GMT
View Forum Message <> Reply to Message

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