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Subject: Re: GLAD magnetic field

Posted by [C. A. Douma](#) on Wed, 14 Sep 2016 10:08:44 GMT

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Dear Ralf,

I also noticed this problem when running simulations with the GLAD vacuum chamber. Since the field is not completely aligned, I was unable to send ions through the center of the pipe (they can fly through without hitting the wall, but their path cannot be completely aligned with the pipe).

My guess would be that the center point of the field should be the intersection of the pipe axis with the z-axis.

However, it is not clear to me where the pipe axis should be. The macro I included will produce the correct orientation of the chamber, but not necessarily the right global position. This is because the global position depends on the position of GLAD. But the position and orientation of GLAD as it is today overlaps with CALIFA and will not connect to the chamber properly...

So may I suggest to solve orientation & position of the GLAD geometry should first? Then the chamber can interfaced with it, giving us the right location of the pipe axis and hence the right centerpoint of the field.

Christiaan.

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### File Attachments

1) [Chamber\\_Dummy\\_Geometry.cpp](#), downloaded 1007 times

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