
Subject: Re: AGATA Crystal positions (Look-Up Table)

Posted by [thuyuk](#) on Fri, 20 Mar 2015 10:22:15 GMT

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Hi all,

Michael, thank you very much for posting the related part of the code where the coordinate transformation is defined. But, these transformations are applied to the coordinates inside the Lookup table, if I'm not wrong. Then, one has to be sure here if the transformation is applied twice. Because, if the Lookup table coordinates are the ones that already transformed, and we make another transformation as we process them, then there will be a problem. Do we know who did provide these coordinates?

Oliver, thanks a lot for posting the document where the measurement results could be found. This might be a very good reference to understand if the crystal positions in the global frame are as same as with the ones after the proper transformation and/or/of the positions inside the Lookup table.

I think there is a good question asked by Oliver: How could we be sure whether we are using the right coordinates?

If we draw the hit points in x,y,z, from which perspective we should see them?

Since there is a 2.2 degrees of rotation difference in the phi axis due to the traslation of the array from Legnaro to GSI, how could we "see" this small angle difference? Let me remind you that the experiments in which the target position is selected forward and with high beta, small changes in positions and angles affect the analysis very much.

Cheers,
Tayfun