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Subject: Re: AGATA Crystal positions (Look-Up Table)  
Posted by [Damian Ralet](#) on Wed, 18 Mar 2015 13:22:14 GMT  
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Dear All,

The CrystalLookupTable allow to pass from the local referential (detector level) to the global referential (laboratory frame). The transformation need the crystal Id to associate the crystal position in the frame.

The table was generated in the Geant4 simulation code for the LNL campaign. I was not aware that they were two tables, but I hope we got the proper one.

The issue with the table between the LNL and the GSI campaign comes from the crystal labeling in the frame. The convention is I think different. The reason might be the position of the AGATA frame with respect to the beam axis, meaning forward at GSI, and on the side at LNL.

I think there is a rotation of 180Degree to performed between the LNL lookup table, and the GSI one. In addition, the axis need to be swap and opposite:

//x,y,z->-y,-x,z

I hope this help,  
Cheers,  
Damian

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