
Subject: How to get the orientation of a detector element?

Posted by [HosseinMoeini](#) on Thu, 10 Feb 2011 16:16:22 GMT

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Dear all,

I was wondering if there's an easy way of retrieving the orientation of a crystal (say, theta and phi) in the pandaroot framework? Using PndEmcHit class, I can get the position and orientation of the center of the crystal.

In order to get the orientation of the crystal itself, I can use the position (x_0, y_0, z_0) of the center of the crystal as well as the position of the center of the, say, front face of the crystal (x_1, y_1, z_1) to obtain the direction of the vector $(x_1 - x_0, y_1 - y_0, z_1 - z_0)$. But then I would need to somehow get the position of the center of the front face of the crystal. And this I don't know how to do! It would be nice if somebody could help me on this matter.

cheers,
Hossein
