Subject: Re: AGATA Crystal positions (Look-Up Table)
Posted by thuyuk on Tue, 24 Mar 2015 10:17:38 GMT
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Dear all,

After looking at the drawings that Damian did, and compare them with what I get with the current CAD-lookup table, I see that the whole array suppose to be swapped in the horizontal axis.

These are the positions in the measurement report that Oliver sent:

These are the positions of the crystals reported by -probably- Plamen before:

Sorry for the poor quality of the second image, I didn't have it in soft copy and had to take a photo of the hard copy. What I get with the CAD-lookup table is pretty much look like this. I intentionally didn't put what I get, but put this image, since the cryostat numbers are given there.

My point is that the cryostat number 1 in the second image does not correspond to the cryostat number 5 in the measurement report, but it seems to me that it corresponds to number 2.

My idea is supported by looking at the number 4 and number 12 in the second image that they have a touching edge, but number 3 and 8 don't have a touching edge in the image that is inside the measurement report. Is it true what I'm saying?

I think we should be careful with this too, since the array has no symmetry according to the vertical axis. The detected angles would be different than the real angles, and this is something that we cannot survive with.

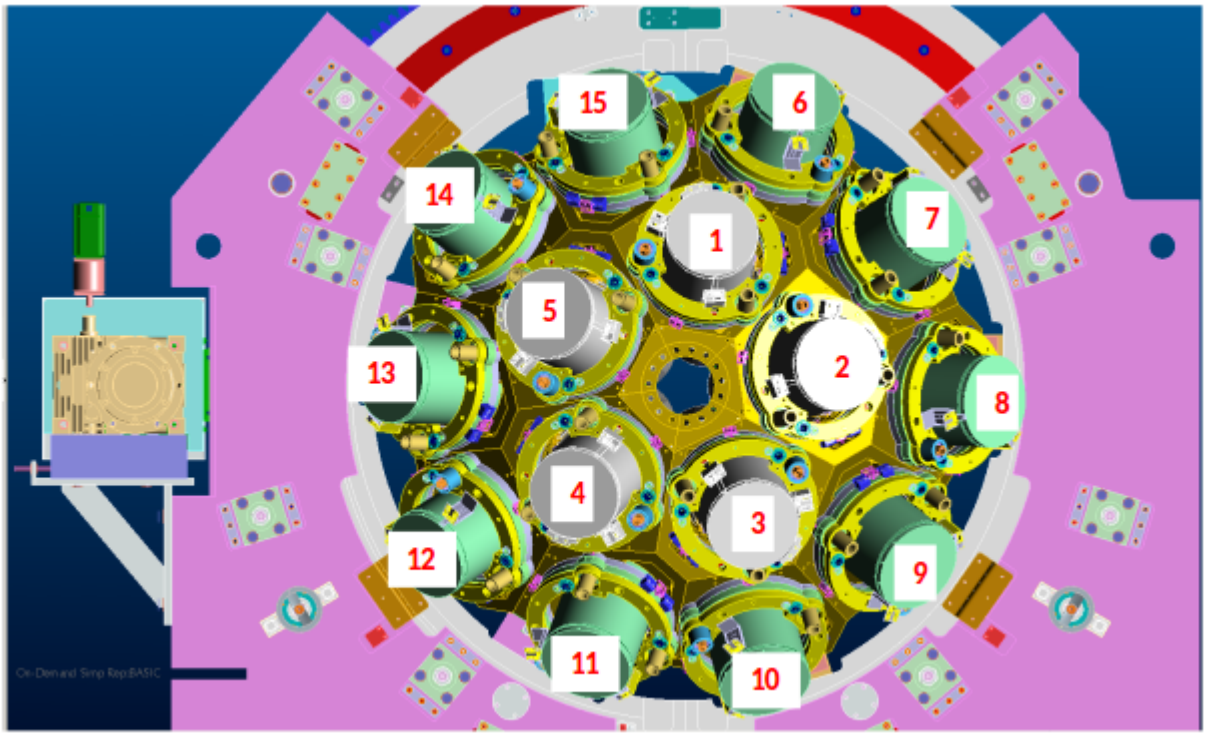
cheers,
tayfun

P.S.

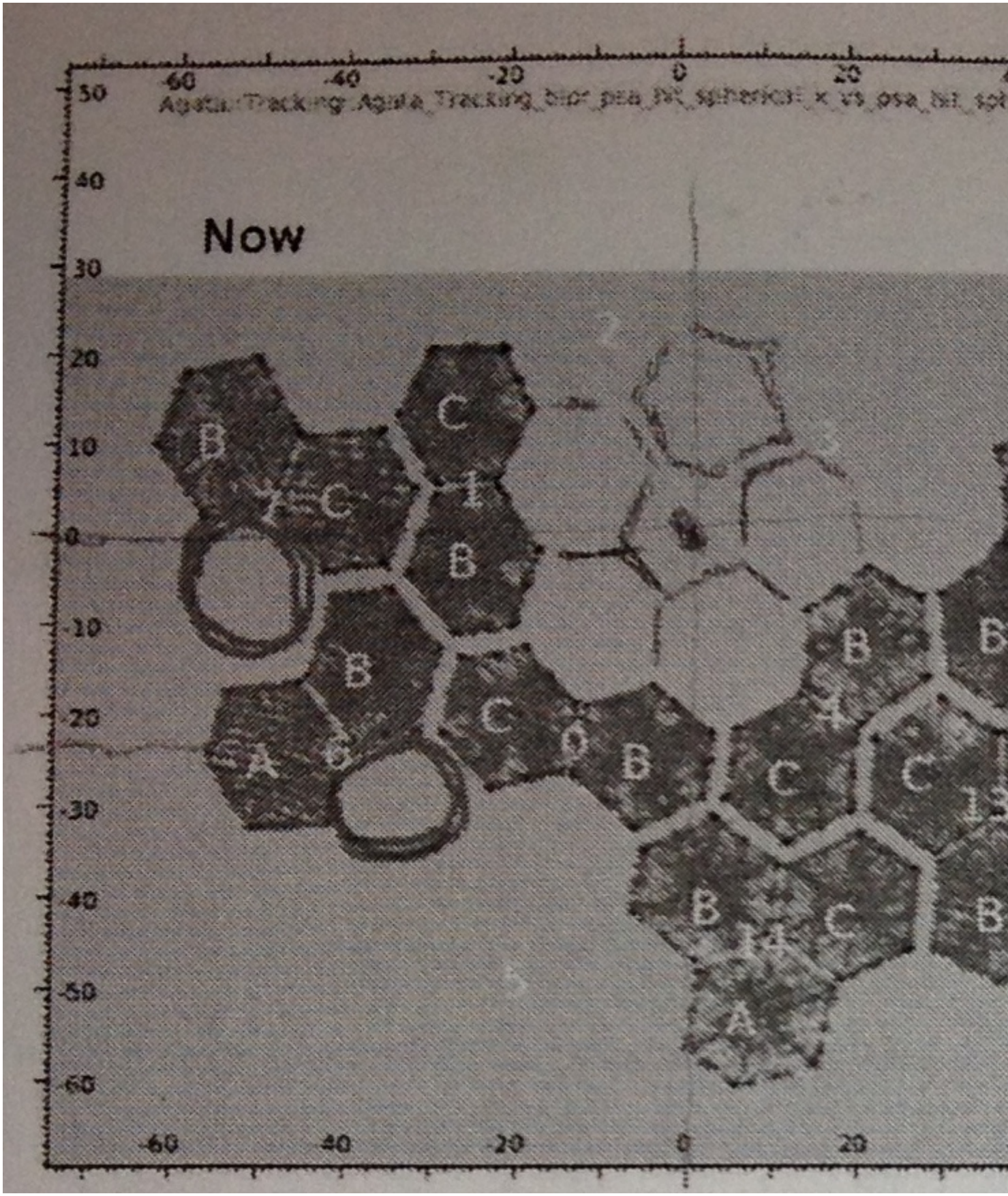
I just found another drawing that Damian sent to me in our private communication. The positioning of the AGATA detectors there also suggest that we should swap the horizontal axis. I didn't get the permission from Damian, but I think he will be OK that I put the image below:

File Attachments

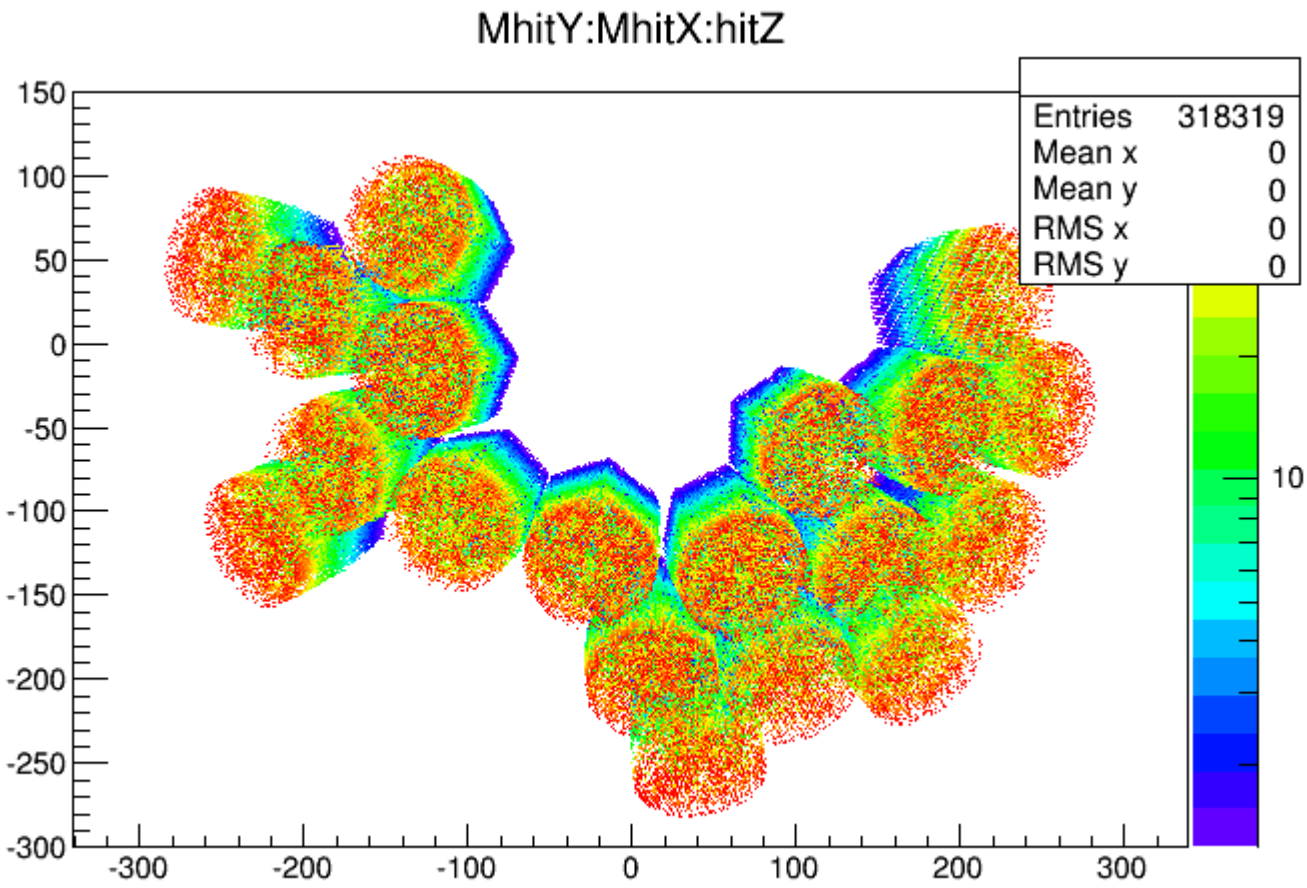
1) agata-report.png, downloaded 1799 times



2) Photo 24-03-15 10 58 45.jpg, downloaded 2318 times



3) hit_position_depthCryst.png, downloaded 1875 times


MhitY:MhitX:hitZ
Entries 318319
Mean x 0
Mean y 0
RMS x 0
RMS y 0
150
100
50
0
-50
-100
-150
-200
-250
-300
-300
-200
-100
0
100
200
300
10