Subject: Re: MHTDC of the AgataTime crate
Posted by thuyuk on Thu, 26 Feb 2015 11:18:29 GMT
View Forum Message <> Reply to Message

I just figured out that the reference signal from the Sci4.1 standard scintillator comes to AGATATimeCrate MHTDC module has some kind of reflection.

I checked the correlation of this signal with the Sci4.1 signal at USER crate MHTDC, and got the following plot:

Where the x-axis and y-axis are the Sci4.1 at the USER crate and the AGATA time crate MHTDCs, respectively.

I would expect to see one "sharp" diagonal line in the perfect conditions, because this is just a comparison of the same signal that come from different modules. But, the reflection-like structure is clearly seen along the y-axis, which represents the Sci4.1 signal at the AGATA time crate MHTDC.

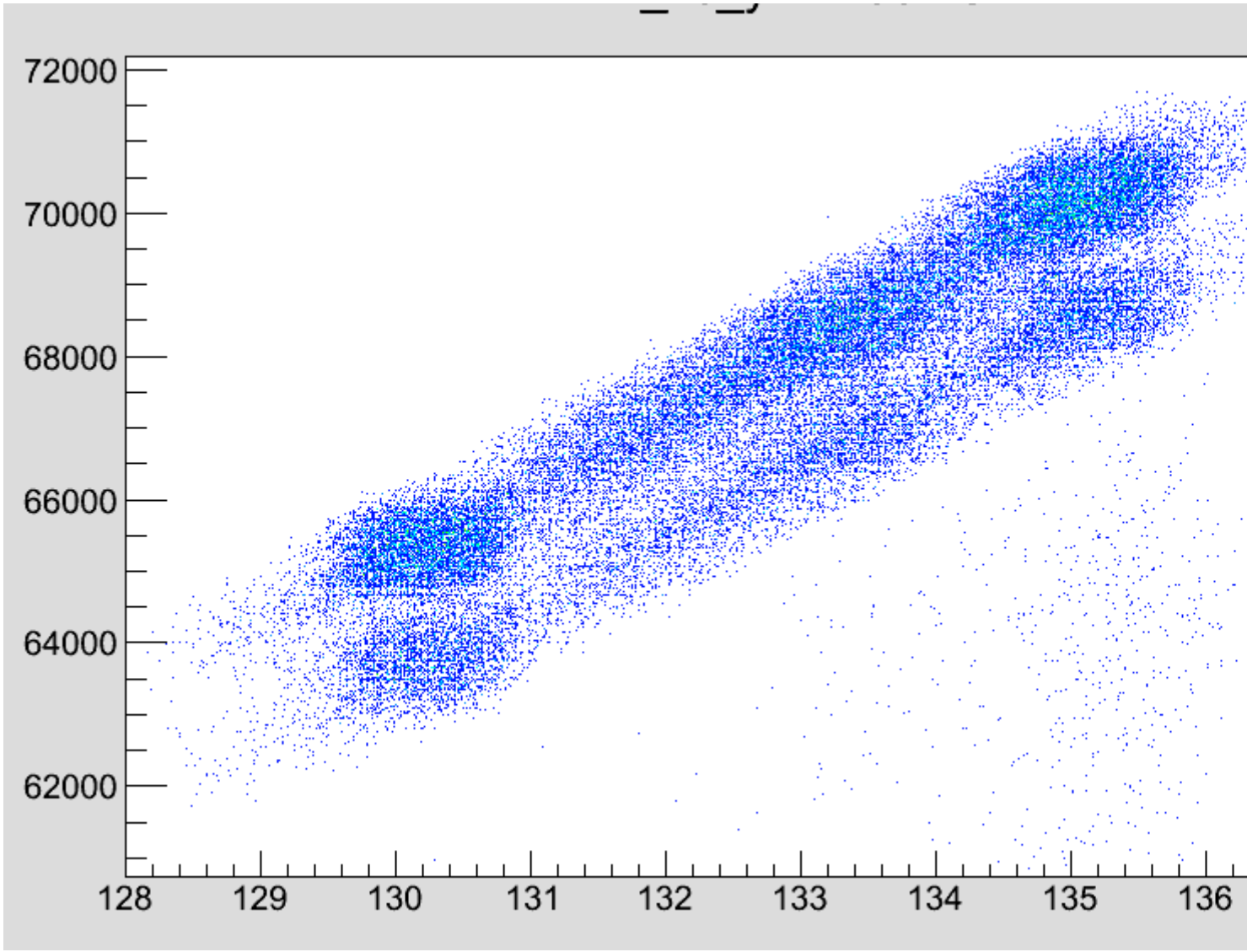
For those who put the time condition on the MHTDC might be interested in this information.

With this motivation, I started to use the Sci4.1 reference from the USER crate to get particle-gamma times from the AGATA crate. I suppose the whole setup is synchronized, therefore, I don't think that the use of the signals from different modules would create any complication. But, of course, a more experienced person who has better knowledge on the setup would confirm or disprove my assumption, and this would be very appreciated.

Cheers,
Tayfun

File Attachments

1) sci41_FRSvsAGATA.png, downloaded 1403 times


72000
70000
68000
66000
64000
62000
128
129
130
131
132
133
134
135
136