Subject: Re: No back propagation to IP for V_0 reconstruction
Posted by donghee on Thu, 04 Dec 2014 21:26:31 GMT
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Hi Stefano,

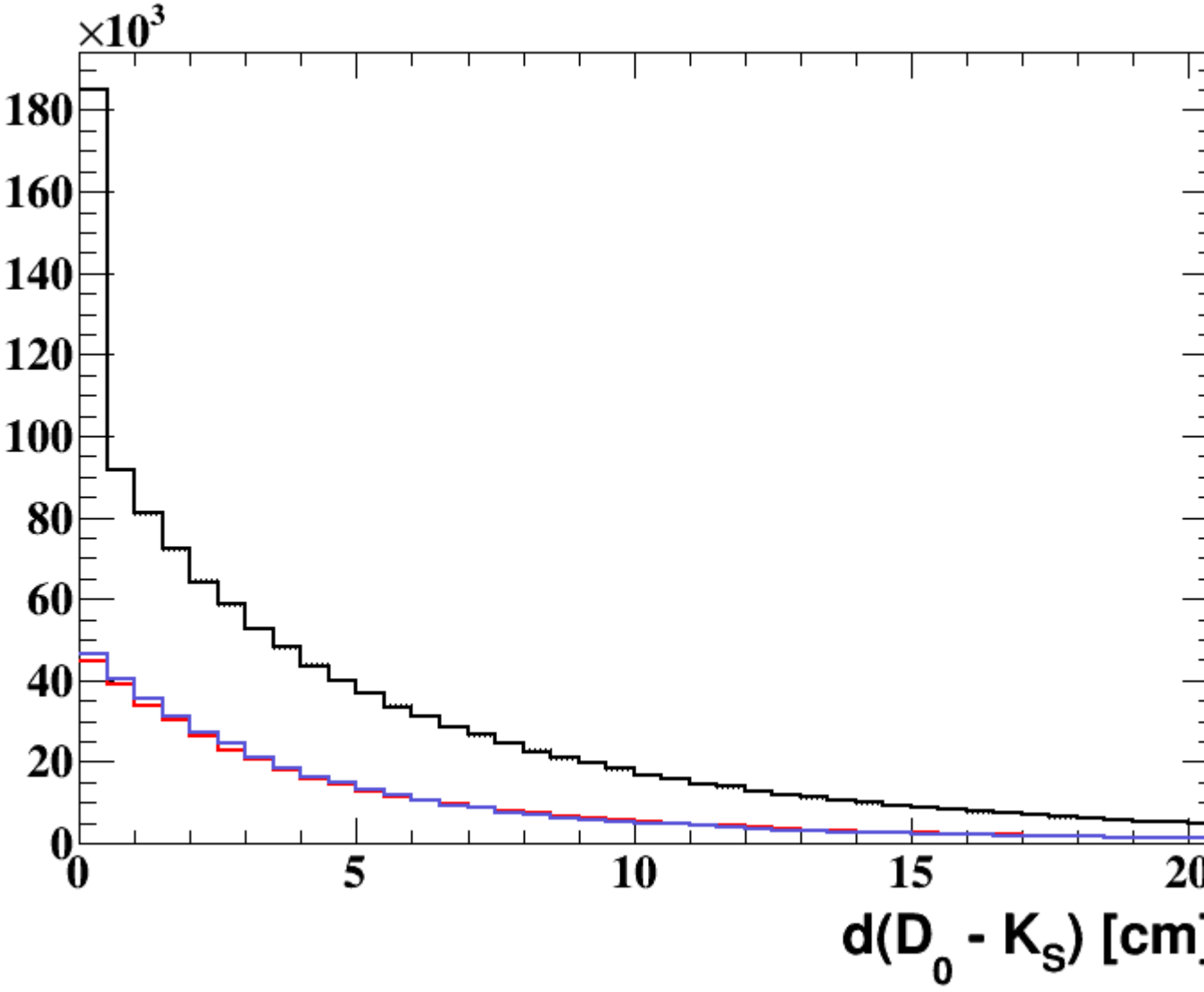
Well, I think that a ratio plot can help us. all distributions are superimposed with linear scale and ratio defined by (yes BP - no BP) / (no BP) is added. one can see a clear transition at distance 5 cm. positive value means "yes BP" is more efficient, negative value means no BP has a better efficiency in some distance range.

I guess more longer lifetime of the Lambda (c*tau = 7.89 cm) can make a clear improvement at V0 reconstruction.
In contrast, K_s (c*tau = 2.68 cm) may be very difficult to get some improvement.
It is quite pitty, however I believe that V0 track finder will be realized soon.
Anyhow I will try to show same quality plots for lambda case.

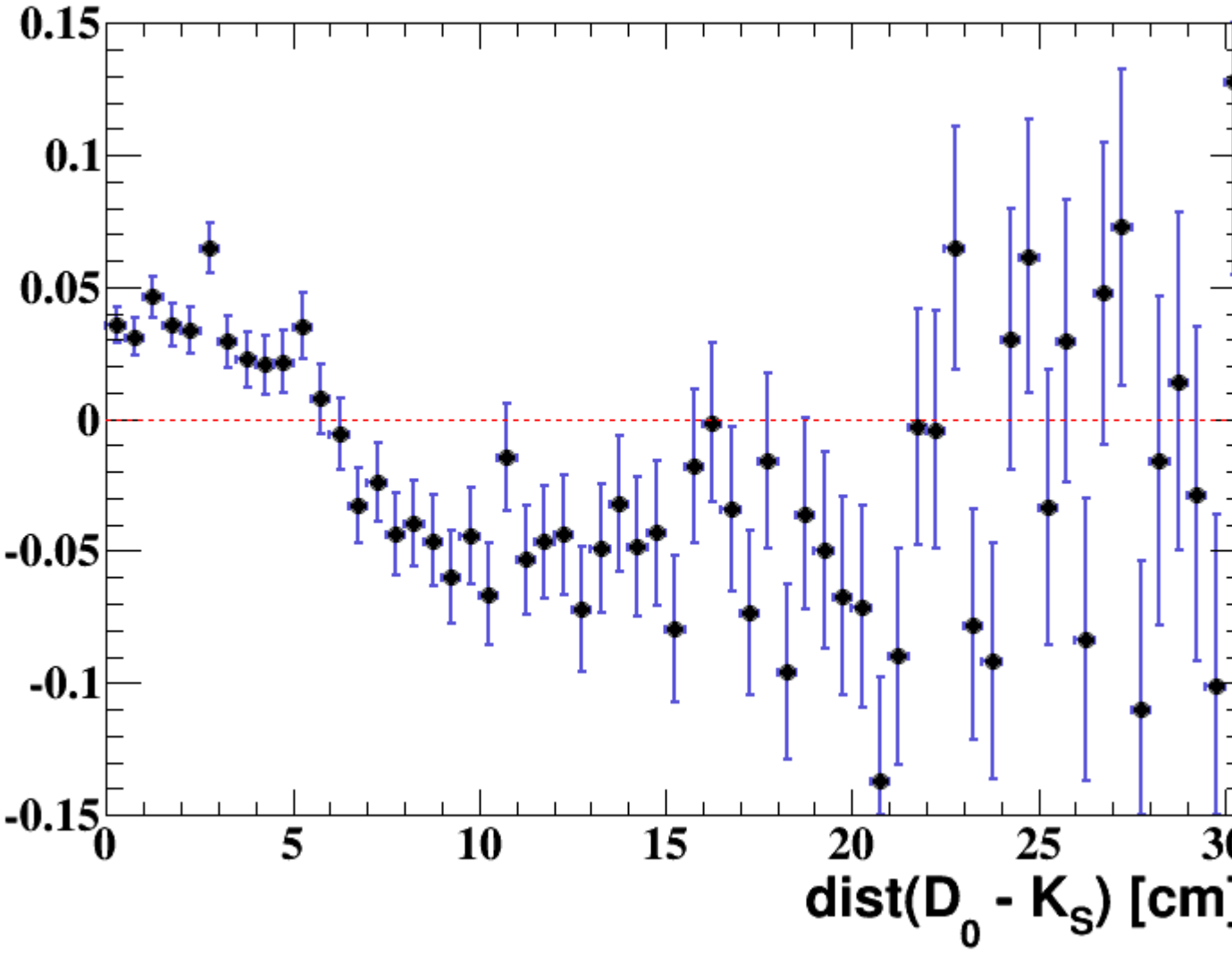
Best wishes,
Donghee

File Attachments

1) test_4_plots_linear.png, downloaded 1603 times



2) test_4_plots_ratio.png, downloaded 1603 times


0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
5
10
15
20
25
dist(D0 - Ks) [cm]