Subject: Re: Cleanup functions
Posted by StefanoSpataro on Thu, 02 Oct 2014 13:40:47 GMT
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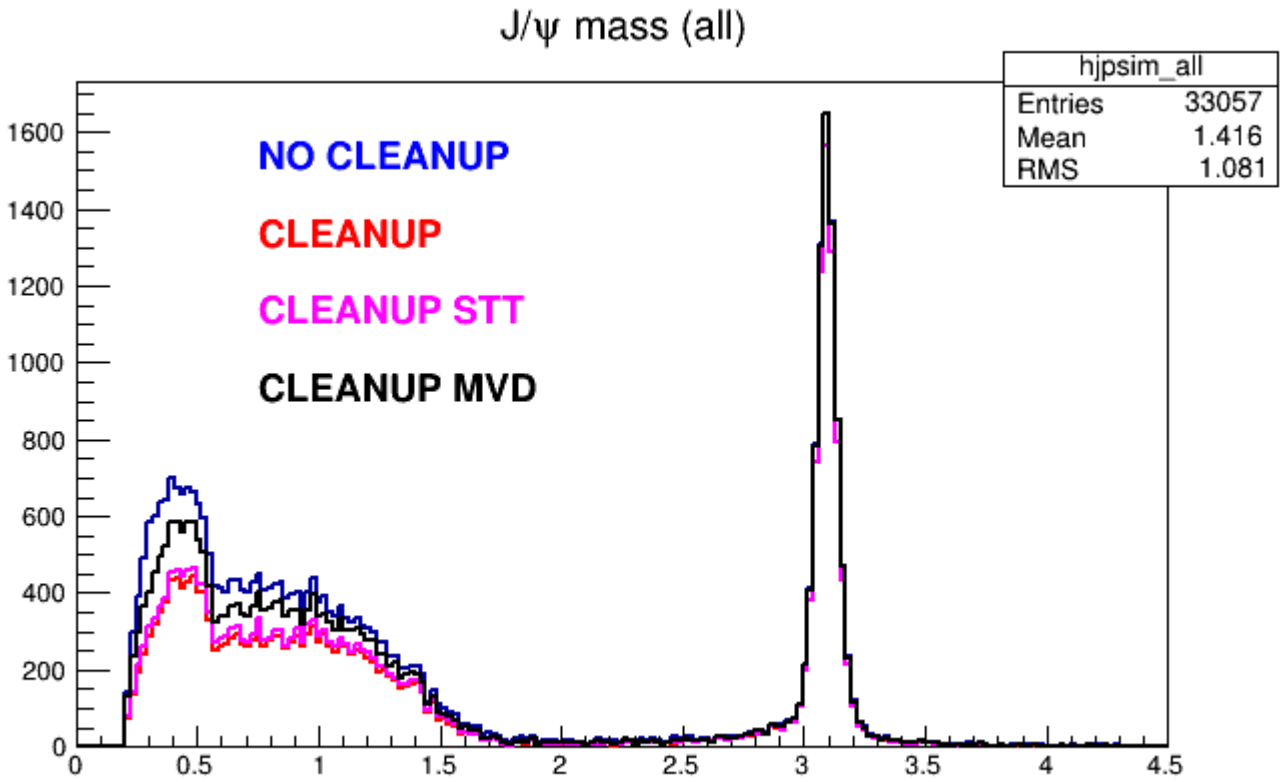
Dear all,
I tried the last tracking code, switch all the possible cleanup options, and verifying the analysis results from the standard nechmark channel (psi(2s) -> J/psi pi+ pi-) without any background mixing.

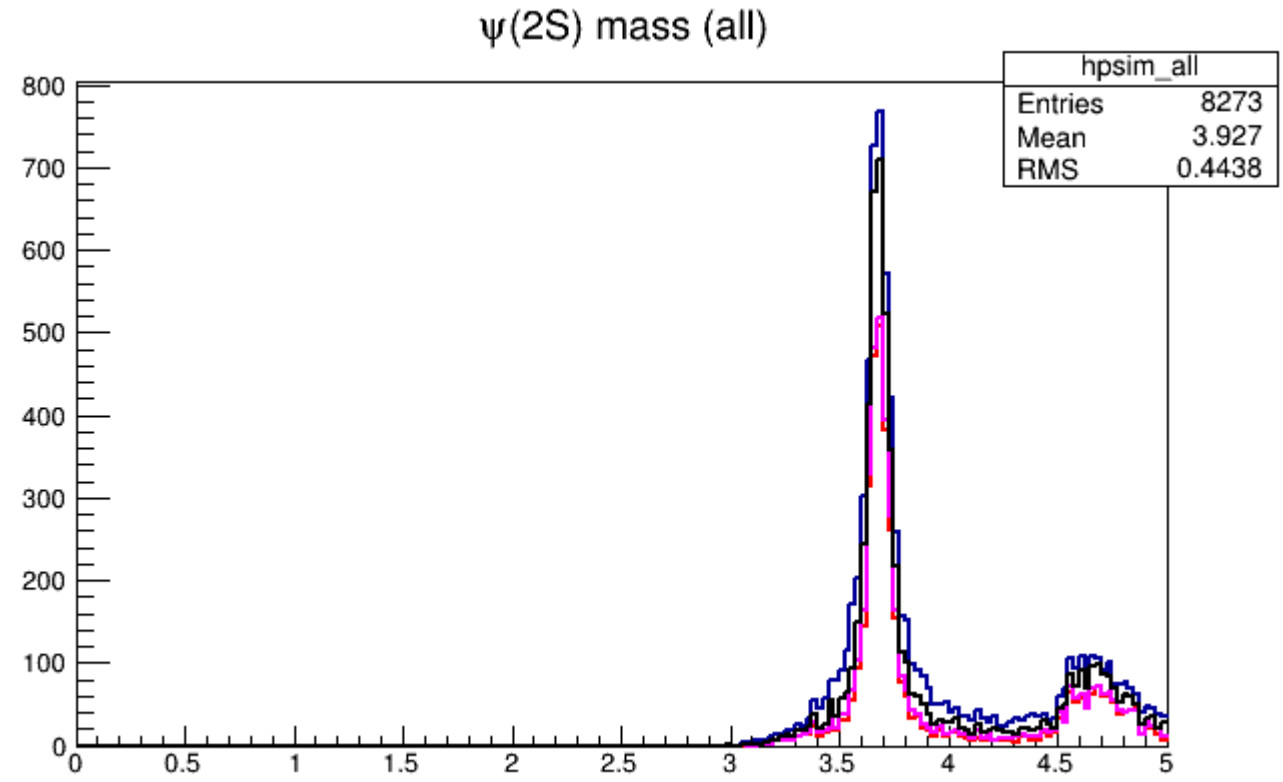
Here you can see the j/psi and the psi(2s) invariant mass distributions:

At a first glance, it seems the cleanup code affects mostly low p tracks (the pions), while the efficiency values for the high p (muons from j/psi) are consistent. Moreover, Mvd cleanup does not reduce the counts so much, the strongest effect comes from the stt cleanup. Of course the code should be verified with the event mixing (thing that I am NOT going to do now).

File Attachments

1) cucomp.gif, downloaded 1486 times


J/ψ mass (all)
hjpsim_all
Entries 33057
Mean 1.416
RMS 1.081
NO CLEANUP
CLEANUP
CLEANUP STT
CLEANUP MVD


ψ(2S) mass (all)
hpsim_all
Entries 8273
Mean 3.927
RMS 0.4438