hi Stefano,
thank you for showing those results.
I stress again that the Cleanup functions are not the final ones since I am still working on them

Gianluigi

StefanoSpataro wrote on Thu, 02 October 2014 15:40Dear 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).