CPV in P.R. D*lv and K-tag

Progress since Elba

Martino, 6/17/2008

TOY MC

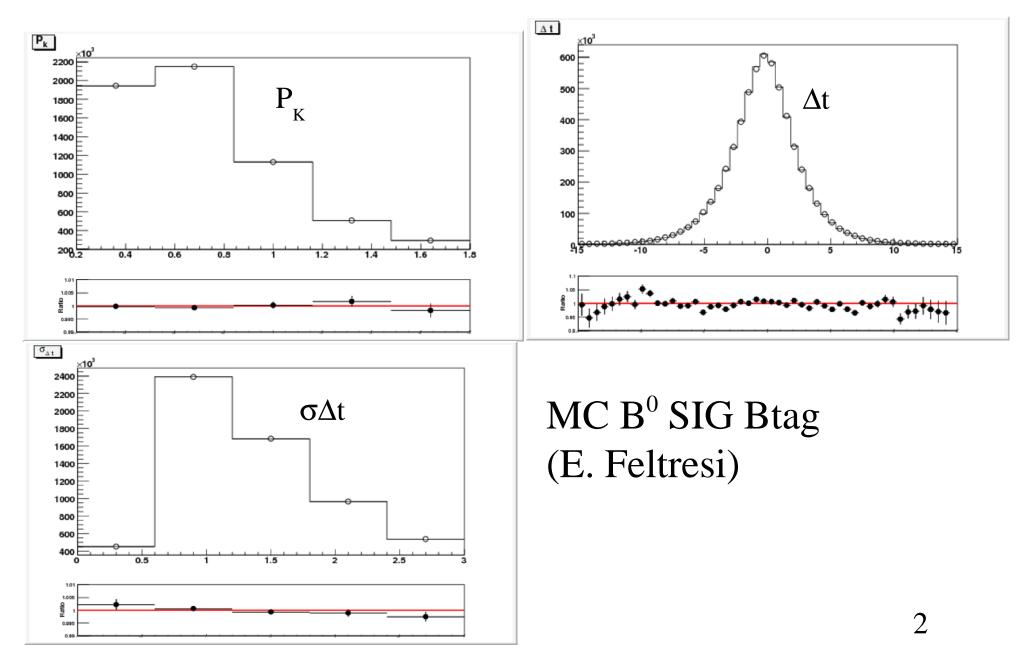
•Generate several experiment starting from the fitted PDF($P_{K}, \Delta t, \sigma \Delta t$) for the various sample categories (B⁰/B⁺/continuum; peaking/BKG; Btag/Dtag);

•Fit separately every generated data set (work in progess);

→MC fit validation: study the pull of the various fits result vs MC truth/(vs nominal fit result) to check the nominal statistical error & to look for a possible analysis bias (to be done, waiting for the nominal fit result);

→DATA fit validation: study the pull of the various fits result vs the nominal fit one (to be done, waiting for the nominal fit result);

Comparison between nominal/generated distributions

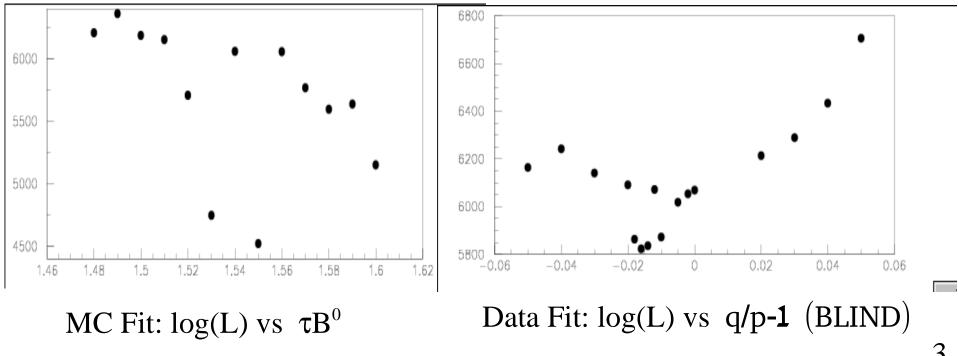


Determination of full-fit convergence

•Scan of the log(L) on the full MC statistics with all the sample components included & floating all the parameters takes too much time (more than 48 h on gridka);

•Scan performed using 1/3 of the available MC statistics (~ Real Data Statistics) •BKG parameters fitted starting from the result obtained on the mv^2 Side Band; •DT log(L) scan in progress.

work in progress, needs some iterations more:



NEXT STEPS:

Conference Paper & Supporting Document ready in a few days.Let's wait for the nominal fit results (hope to be in time for ICHEP).