Detector induced assymetry in CP violation measurements

Eugenia Spedicato, Lina Maria Ortiz Parra, Jonah Blank

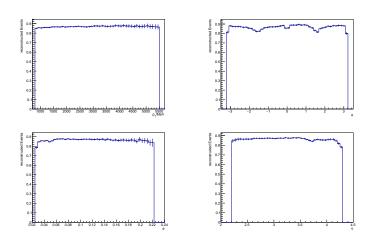
December 13, 2019

Total

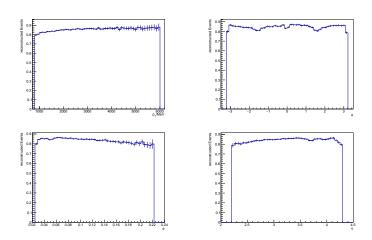
Efficiencies

Polarity	ϵ_{π}	ϵ_K	$\epsilon_{\pi,s}$	ϵ_{D^0}	ϵ_{D^*}
UP DOWN	86.61(15) 86.61(17)	` ,	76.61(13) 76.54(15)	` ,	` ,

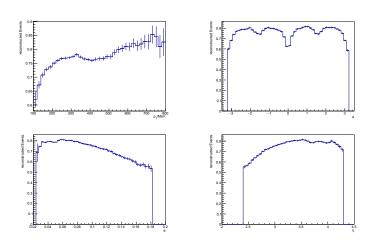
π -efficiency



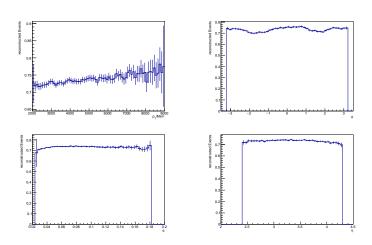
K-efficiency



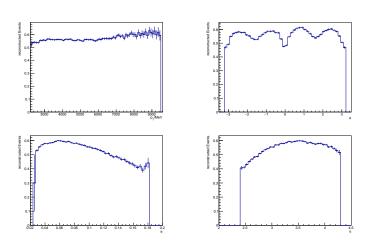
soft π -efficiency



D⁰-efficiency



*D**-efficiency

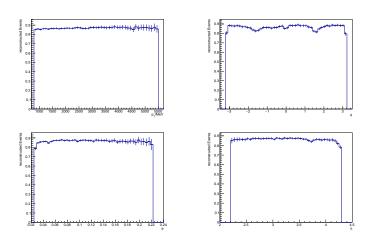


Charge: +

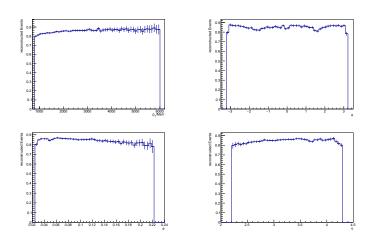
Efficiencies

Polarity	ϵ_{π}	ϵ_{K}	$\epsilon_{\pi,s}$	ϵ_{D^0}	ϵ_{D^*}
UP DOWN	86.63(21) 86.57(24)	` ,	76.26(19) 76.71(22)	` ,	` ,

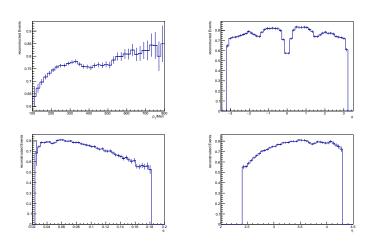
π -efficiency



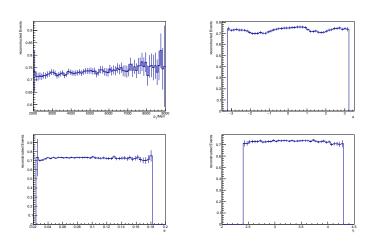
K-efficiency



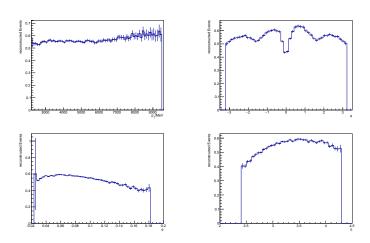
soft π -efficiency



D^0 -efficiency



*D**-efficiency

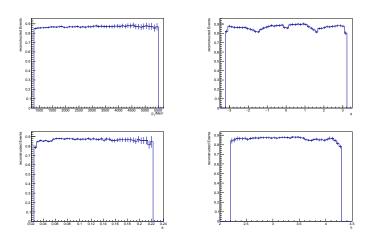


Charge: -

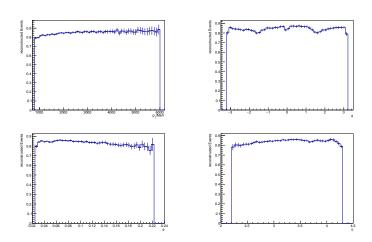
Efficiencies

Polarity	ϵ_{π}	ϵ_{K}	$\epsilon_{\pi,s}$	ϵ_{D^0}	ϵ_{D^*}
UP	` ,	` ,	` ,	` ,	56.81(15)
DOWN	86.64(24)	83.95(23)	76.36(22)	73.74(21)	56.38(17)

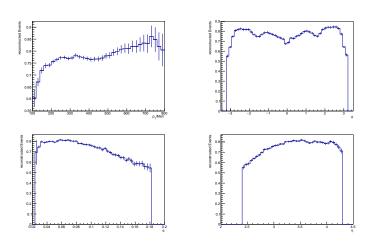
π -efficiency



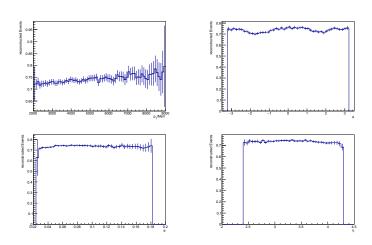
K-efficiency



soft π -efficiency



D^0 -efficiency



*D**-efficiency

