

Detector induced assymetry in CP violation measurements

Eugenia Spedicato, Lina Maria Ortiz Parra, Jonah Blank

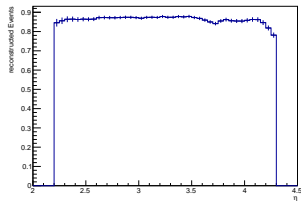
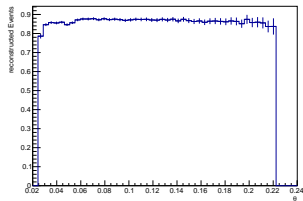
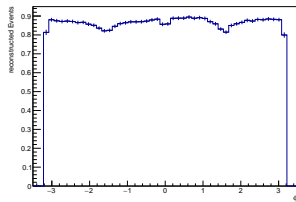
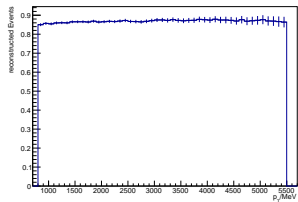
December 13, 2019

Progress 04.12.19

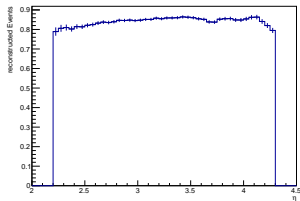
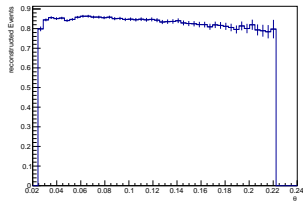
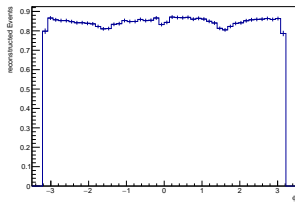
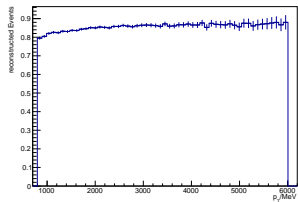
Total Efficiencies

Polarity	ϵ_{π}	ϵ_K	$\epsilon_{\pi,S}$	ϵ_{D^0}	ϵ_{D^*}
<i>UP</i>	86.6106	84.6535	76.6145	73.3255	56.2636
<i>DOWN</i>	86.6086	84.6657	76.5371	73.332	56.2344

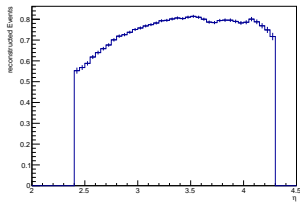
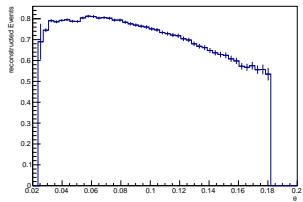
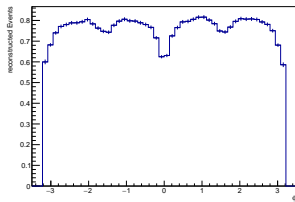
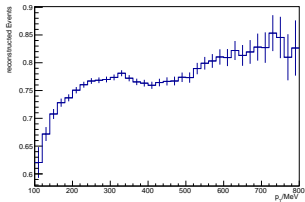
π -efficiency



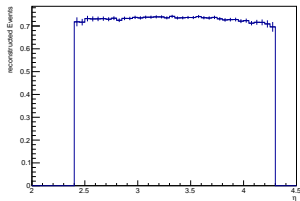
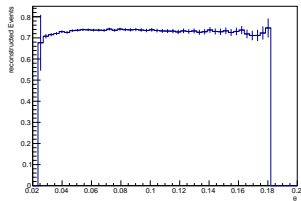
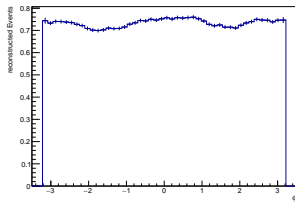
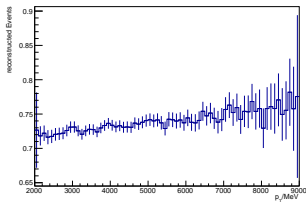
K-efficiency



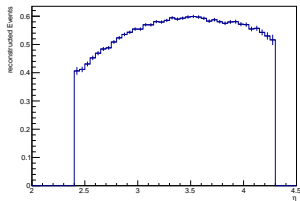
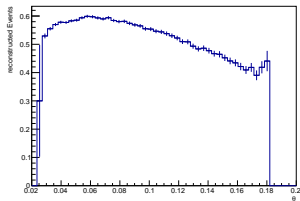
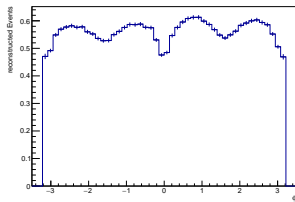
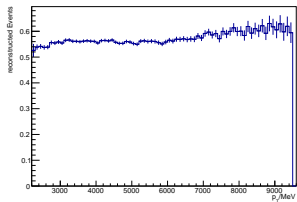
soft π -efficiency



D^0 -efficiency

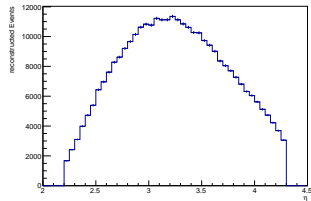
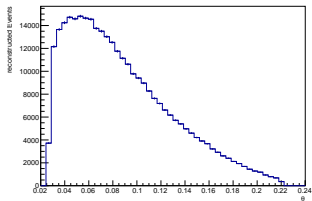
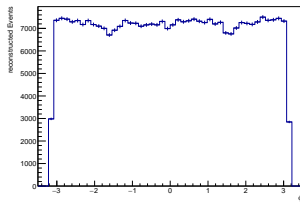
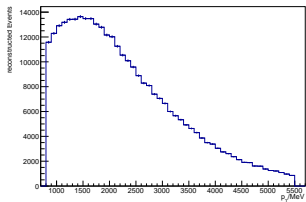


D^* -efficiency

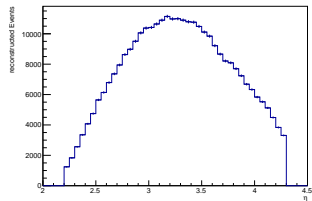
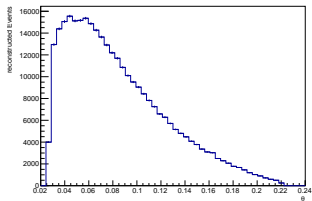
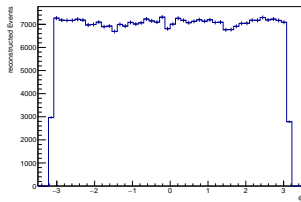
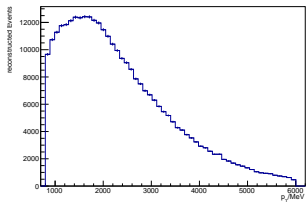


Charge: +

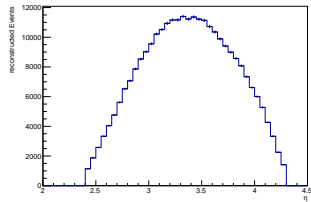
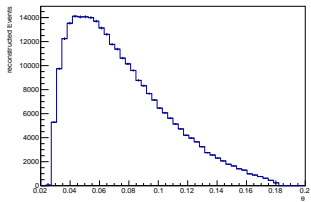
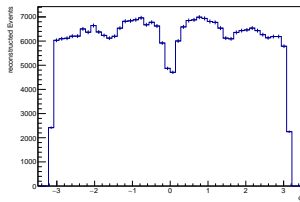
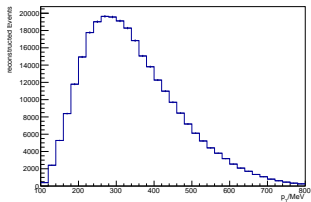
π -efficiency



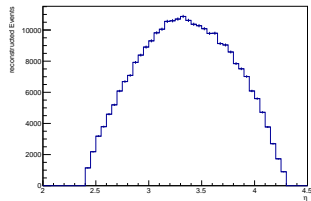
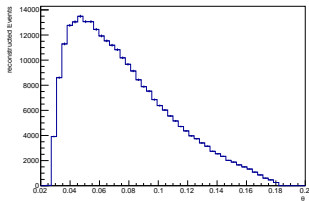
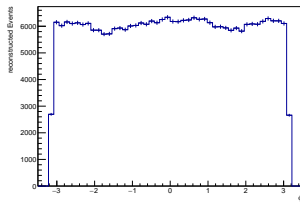
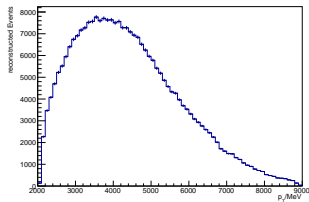
K-efficiency



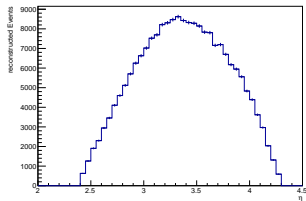
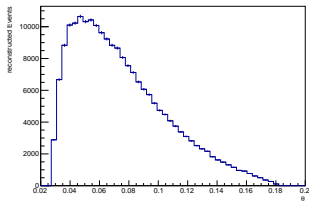
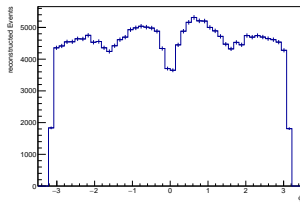
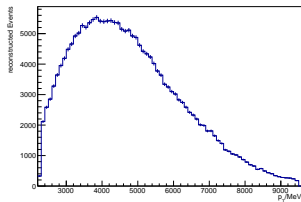
soft π -efficiency



D^0 -efficiency

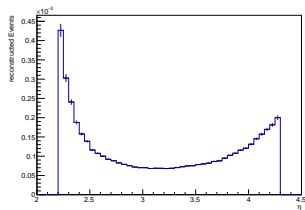
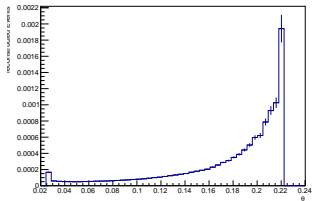
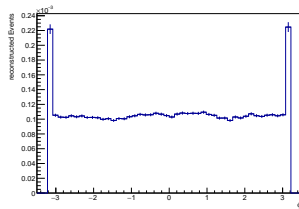
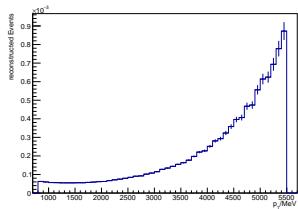


D^* -efficiency

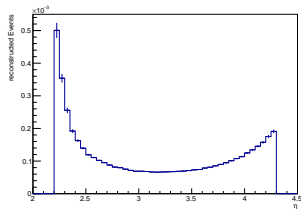
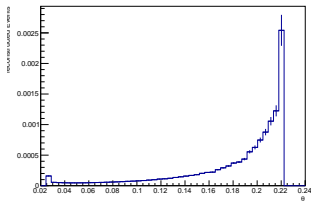
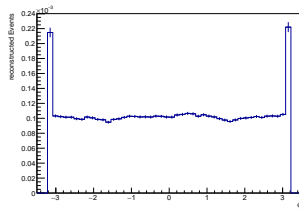
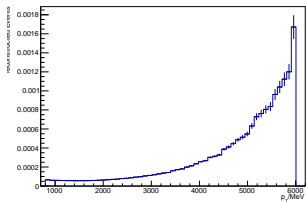


Charge: -

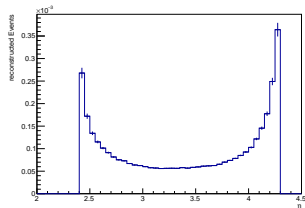
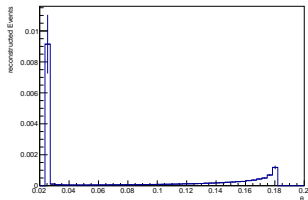
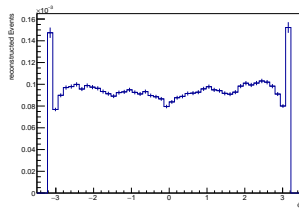
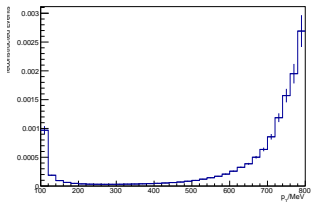
π -efficiency



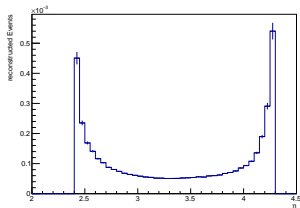
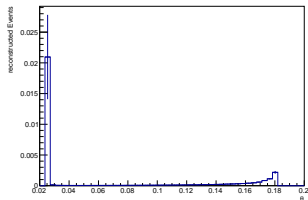
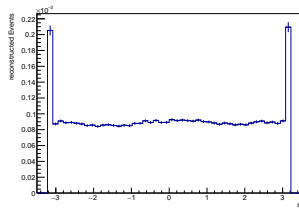
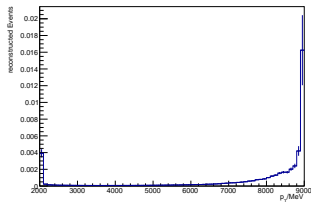
K-efficiency



soft π -efficiency



D^0 -efficiency



D^* -efficiency

