Pion Asymmetry Analysis

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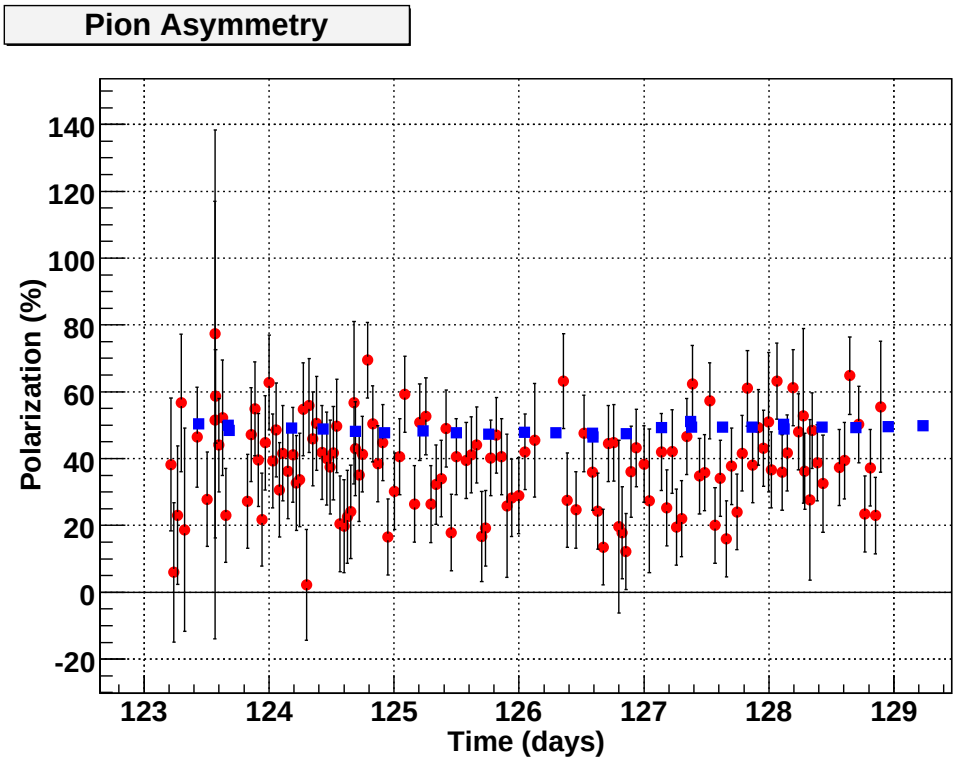
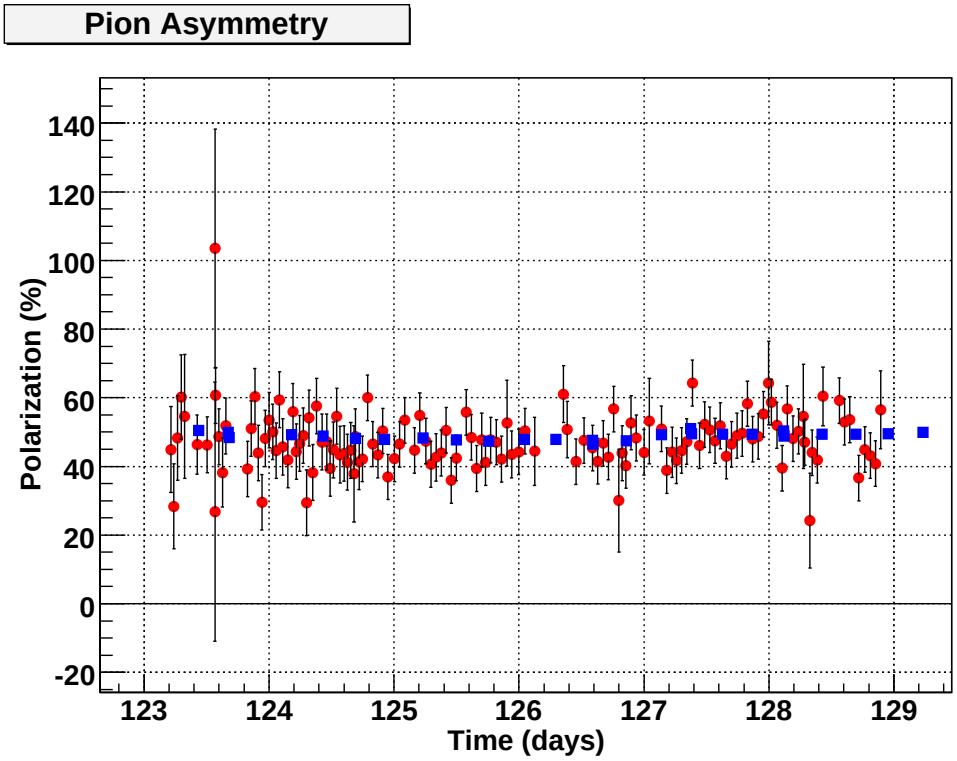
Variable	Cut	Reason
B.ts.ps.e	$100 < x < 400$	Use BB preshower
B.tr.vz	$-0.18 < x < 0.18$	Use BB tracking t
Ndata.D.bit2	true	Select T2s (BB si
D.ctimeL1A	$2690 < x < 2700$	Select out of time

The cuts were used to select Big Bite singles events or mis-identified coincidence events that were identified as pions originating from within the target.

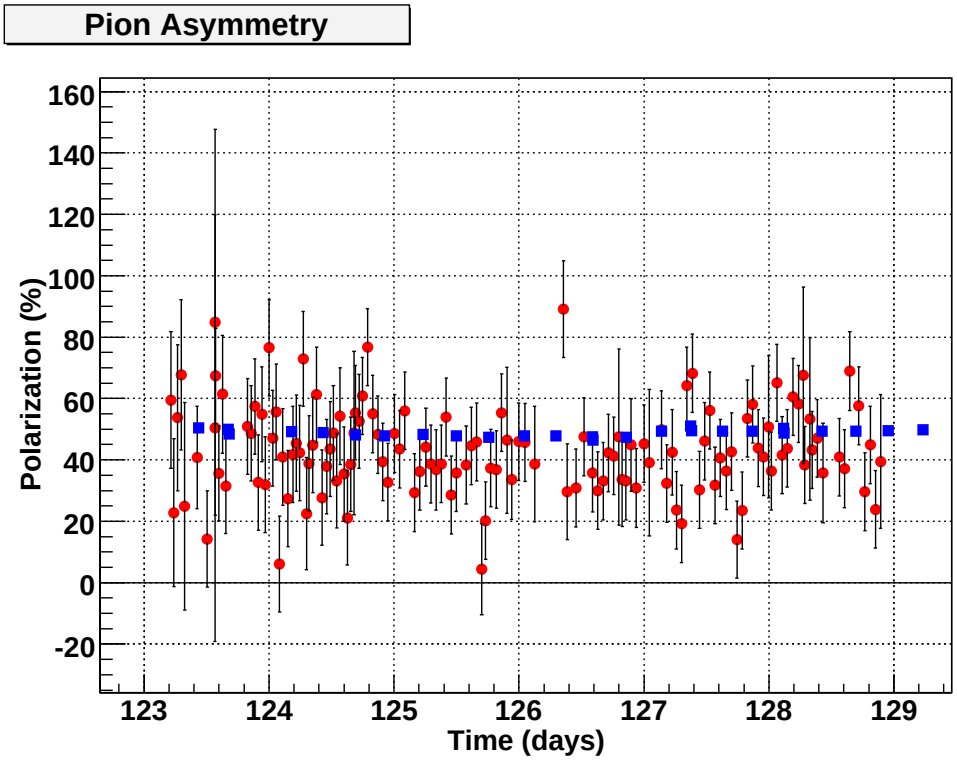


Pion Asymmetry. The asymmetry from the cleanest pion sample, target polarization measurements (blue squares) have systematic uncertainty included.

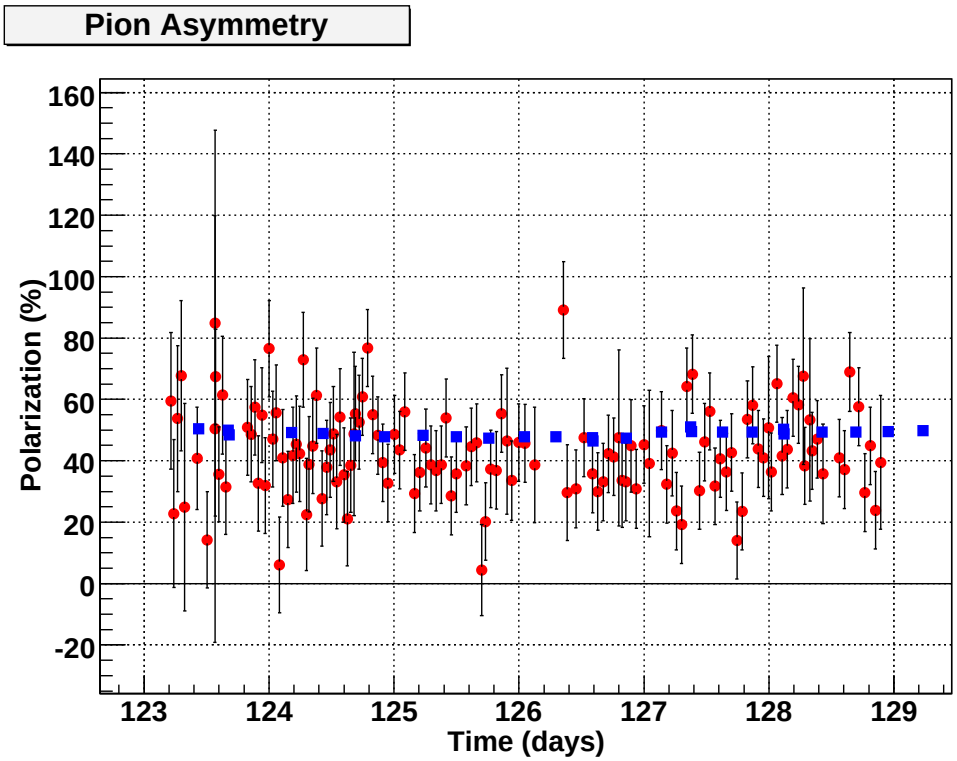
As seen Sept. 21



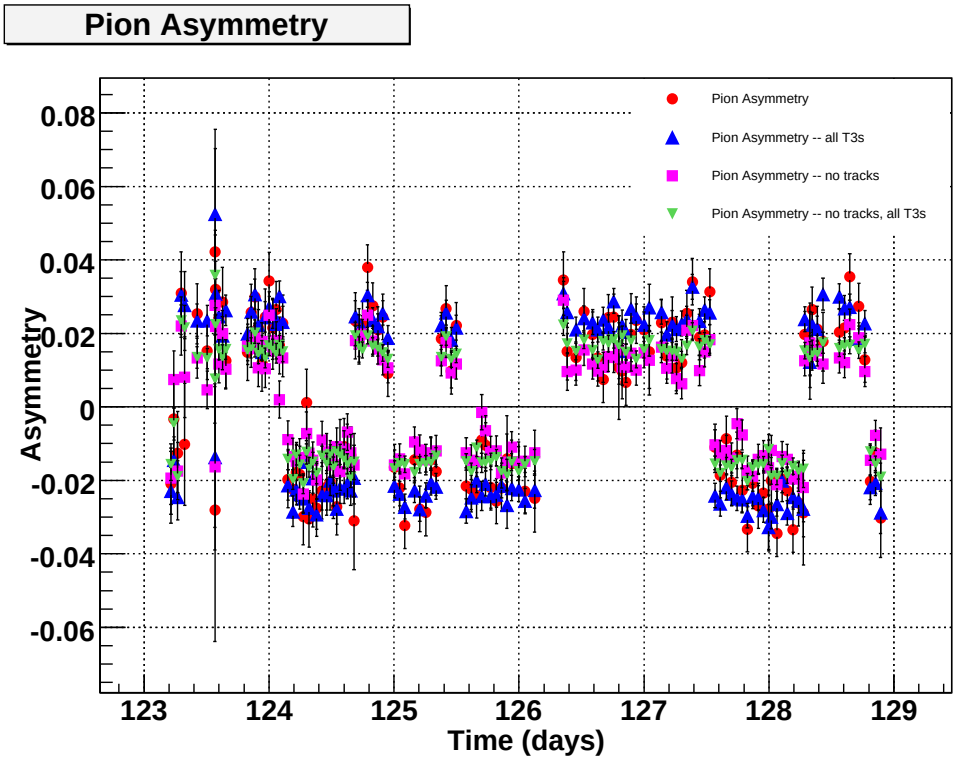
Pion Asymmetry – Coincidence. The cut restricting coincidence triggers to those without meaningful timing is relaxed to increase the sample size.



Pion Asymmetry – No Tracking. Tracking was not required for these events.



Pion Asymmetry – No Timing. Tracking was not required for these events, which included all coincidence triggers.



Pion Asymmetry Cut Study. Different samples are plotted together.