Evals 1 vs Evals 4

Apple- to -Apple comparison

To investigate the difference between official STI vs STICA in EVAL

Production	Production Library [also W-code compiled library]	Tracking	vertex finding	BEMC-gains	<i>#</i> of runs used in the comparison	# of events
"evals4"	EVAL	StiCA	PPV_W	run 12 - 200 GeV	896	11.26 M
"evals1"	SL16b	Sti	PPV_W	run 12 200 GeV	896	11.26 M

Events Counts as a function of W cuts



Final W: Et, ZDC

Final W - Et

Final W - ZDC

350

350

400

450

zdcx rate (kHz)

400

450

zdcx rate (kHz)

500

 10^{3}

500



Final W Eta



Final W ZDC



Summary

- We see ~18 % enhancement in tracks above Pt = 10 GeV and similar enhancement in final W [> 25 GeV] tracks using STICA tracking.
- Significant enhancement of final W Eta in mid rapidity region where a "dip" [data-MC discrepancy] was observed previously.