

Data taken at SR1

Run Cosmic ID Reconstruction for three different sets of runs

Matching study wrt Offline: **TOP Sector Efficiencies**

COSMIC RUNS	4 SCT layers crossed		3 SCT layers crossed	
	IdScan	SiTrack	IdScan	SiTrack
First Runs (2850)	0.46 ± 0.01	0.70 ± 0.01	0.32 ± 0.03	0.46 ± 0.03
Runs with SCT at trim target thresholds (2992)	0.323 ± 0.004	0.721 ± 0.006	0.209 ± 0.009	0.46 ± 0.02
SCT thresholds set to 1fC (3080)	0.355 ± 0.008	0.740 ± 0.009	0.22 ± 0.02	0.53 ± 0.03

BTM Sector Efficiencies

COSMIC RUNS	4 SCT layers crossed		3 SCT layers crossed	
	IdScan	SiTrack	IdScan	SiTrack
First Runs (2850)	0.45 ± 0.01	0.54 ± 0.04	0.14 ± 0.02	0.49 ± 0.07
Runs with SCT at trim target thresholds (2992)	0.301 ± 0.004	0.61 ± 0.02	0.085 ± 0.006	0.73 ± 0.05
SCT thresholds set to 1fC (3080)	0.378 ± 0.008	0.65 ± 0.03	0.09 ± 0.01	0.88 ± 0.04

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Simple Efficiencies (PesaMtg.)

COSMIC RUNS	Efficiencies	
	IdScan	SiTrack
First Runs (2850)	0.682 ± 0.007	0.910 ± 0.004
Runs with SCT at trim target thresholds (2992)	0.474 ± 0.003	0.925 ± 0.002
SCT thresholds set to 1fC (3080)	0.547 ± 0.006	0.923 ± 0.003
SIMULATION	0.834 ± 0.002	0.950 ± 0.001

TO DO:

Simple Efficiencies with matching between T2I and Offline variables
(soon)