

ECAL Background Rates using Hall D Generator

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ECAL : Wiser Background Rate

- With the photon blocker
- Photons are separated into two groups
 - From π^0 and all other secondary photons
 - No high energy gammas after photon blocker
 - Photon rate is mostly dominated by very low energy tracks

All Mom.		Before Trigger (MHz)	After 6+1 Trigger (MHz)	After 2+1 Trigger (MHz)
	Bkg. e^\pm	1308.2	0.9	0.4
	π^\pm	842.5	5.3	2.0
	$\gamma(\pi^0)$	55346.5	49.9	14.3
	all other γ	9104.3	11.4	3.7
P > 1 GeV				
	Bkg. e^\pm	0.0	0.0	0.0
	π^\pm	140.1	4.3	1.0
	$\gamma(\pi^0)$	0.3	0.0	0.0
	all other γ	0.0	0.0	0.0
P < 1 GeV				
	Bkg. e^\pm	1308.2	0.9	0.4
	π^\pm	702.4	1.0	1.0
	$\gamma(\pi^0)$	55346.2	49.9	14.3
	all other γ	9104.3	11.4	3.7

ECAL : Hall D Gen. Background Rate

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All Mom.		Before Trigger (MHz)	After 6+1 Trigger (MHz)	After 2+1 Trigger (MHz)
	Bkg. e^\pm	396.9	0.3	0.0
	π^\pm	433.2	3.8	0.5
	$\gamma(\pi^0)$	23010.9	14.2	2.5
	all other γ	4581.4	3.0	0.7
P > 1 GeV				
	Bkg. e^\pm	0.1	0.0	0.0
	π^\pm	97.3	3.1	0.5
	$\gamma(\pi^0)$	0.2	0.0	0.0
	all other γ	0.2	0.0	0.0
P < 1 GeV				
	Bkg. e^\pm	396.7	0.3	0.0
	π^\pm	335.8	0.7	0.1
	$\gamma(\pi^0)$	23010.7	14.1	2.5
	all other γ	4581.2	3.0	0.7