

L1 Update

- Bug found!
 - improper use of $>$ vs. \geq in turn-on curves found
 - rates at a fixed offline threshold will improve for jets and photons
- Made rate vs. offline threshold tables for photons

L1 Photons

non-iso photons $ \eta < 2.0$		
Offline threshold (GeV)	L1 Threshold (GeV)	L1 Rate (Hz)
10	4	15139.8
15	8	9314.18
20	9	8001.29
30	15	2984.2
40	22	337.921
60	34	25.3

- Rates computed on Hydjet 5.02
- Offline thresholds 10-30 found with MB Hydjet 5.02, 40-60 found using embedded sample
- In backup show separate tables for different eta cuts/ isolation/ input samples
- **Proposal for L1 seed bits in next menu:**
 - 4 (seeds 10GeV HLT)
 - 8 (seeds 15 and 20 HLT)
 - 15 (seeds 30 HLT)
 - 22 (seeds 40 HLT)
 - 34 (seeds 60 HLT, optional if 22 is un-prescaled)

backup

AllQCD 30 sample			
non-iso photons $ \eta < 2.0$			
	Offline threshold	L1 Threshold	L1 Rate (Hz)
	10	3	17739.9
	15	3	17739.9
	20	3	17739.9
	30	8	9314.18
	40	22	337.921
	60	34	25.3
iso photons $ \eta < 2.0$			
	Offline threshold	L1 Threshold	L1 Rate (Hz)
	10	3	17739.9
	15	3	17739.9
	20	3	17739.9
	30	8	9314.18
	40	24	169.977
	60	34	25.3

MB 5.02 Sample			
	non-iso photons $ \eta < 2.0$		
	Offline threshold	L1 Threshold	L1 Rate (Hz)
	10	4	15139.8
	15	8	9314.18
	20	9	8001.29
	30	15	2984.2
	40	21	354.734
	60	33	28.45
	iso photons $ \eta < 2.0$		
	Offline threshold	L1 Threshold	L1 Rate (Hz)
	10	6	11443.3
	15	10	6838.8
	20	13	3945.68
	30	15	2984.2
	40	30	44.7113
	60	63	2.217