Level3 MET Study

results from Trigsim

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Run on real data

- run 154597 (2.5 cal thrseholds)

- run 158535 (1.5 cal thrseholds)

local build of:

p12.04.00 version of d0trigsim

head versions of l3fCalMEt, l3tCalUnpTool

(offline cut of 2.5 for both runs)

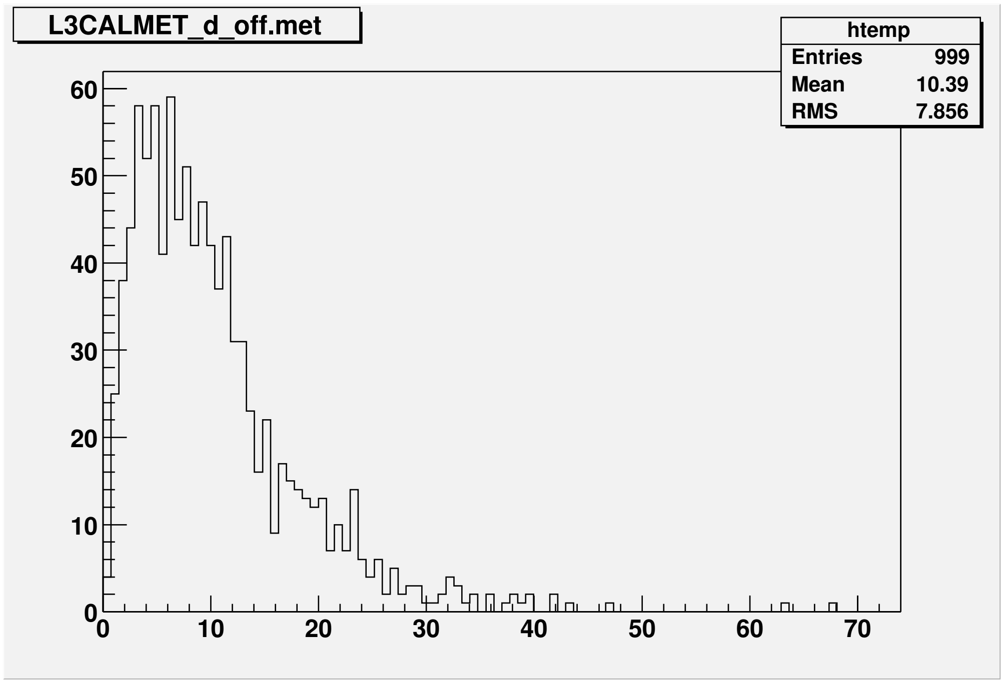
Run on data, with and without the Coarse Hadronic calorimeter, and vary eta range.

run 154597: (cal thresholds 2.5 sigma)

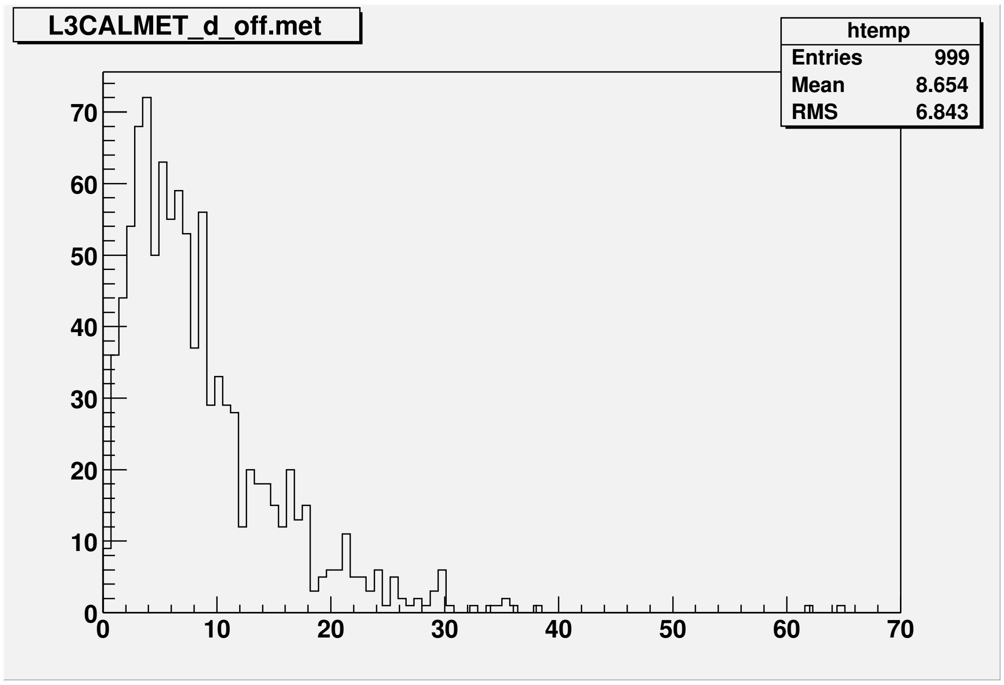
max eta	info used	MEt mean, rms	MEtx mean, rms	MEty mean, rms	SEt mean, rms	Run 1 mean, rms	sqrt($MEtx^2_{rms}$ + $MEty^2_{rms}$)
1.6	cells and ch	11.96	2.87	-2.97	38.23	2.50	
	(rms)	9.39	10.06	10.64	33.54	2.92	14.64
2.4	cells and ch	10.70	2.32	-2.17	49.67	2.04	
		8.10	8.90	9.39	39.20	3.09	12.94
	cells	9.14	1.52	-1.78	46.82	1.73	
		7.38	7.87	8.40	36.91	2.82	11.51
3.7	cells and ch	10.39	2.23	-2.62	65.52	1.72	
		7.86	8.62	9.14	46.13	3.01	12.56
	cells	8.65	1.42	-1.69	62.06	1.39	
		6.84	7.36	7.92	43.68	2.33	10.81
5.0	cells and ch	10.42	2.44	-2.67	71.18	1.70	
		7.90	8.60	9.15	48.38	3.39	12.56

run 158535: (cal thresholds 1.5 sigma)

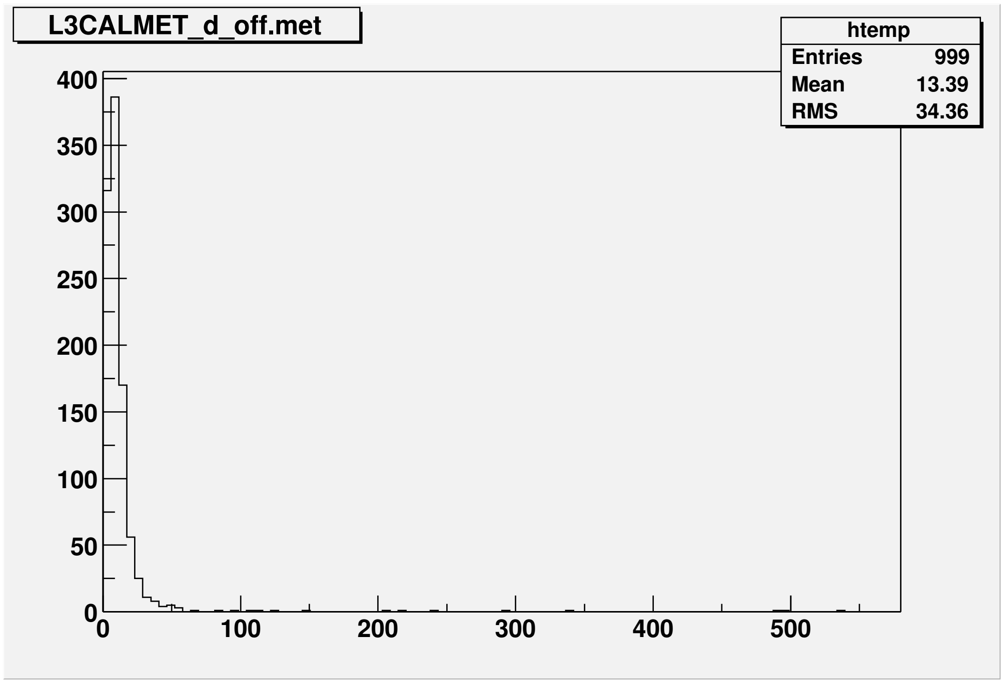
max eta	info used	MEt mean, rms	MEtx mean, rms	MEty mean, rms	SEt mean, rms	Run 1 mean, rms	sqrt($MEtx_{rms}^2$ + $MEty_{rms}^2$)
1.6	cells and ch	14.19	1.36	1.04	37.80	2.60	
	(rms)	31.81	28.05	20.57	95.05	3.74	34.78
	cells	11.19	0.82	0.76	31.69	2.08	
		14.78	12.50	13.64	35.43	1.85	18.50
2.4	cells and ch	13.37	2.34	1.65	51.42	2.06	
		33.59	27.33	23.50	107.60	3.63	36.04
	cells	10.07	1.22	1.28	44.41	1.64	
		16.05	11.79	14.74	45.89	1.66	18.88
3.7	cells and ch	13.39	2.71	1.90	65.42	1.78	
		34.36	27.10	24.80	114.40	2.87	36.74
	cells	10.14	1.50	1.42	57.81	1.46	
		17.01	12.04	15.58	51.41	1.64	19.69
5.0	cells and ch	13.52	2.94	1.80	70.30	1.76	
		34.36	27.08	24.86	115.10	3.04	36.76
	cells	10.24	1.70	1.34	62.11	1.45	
		17.03	12.03	15.66	52.37	1.87	19.75



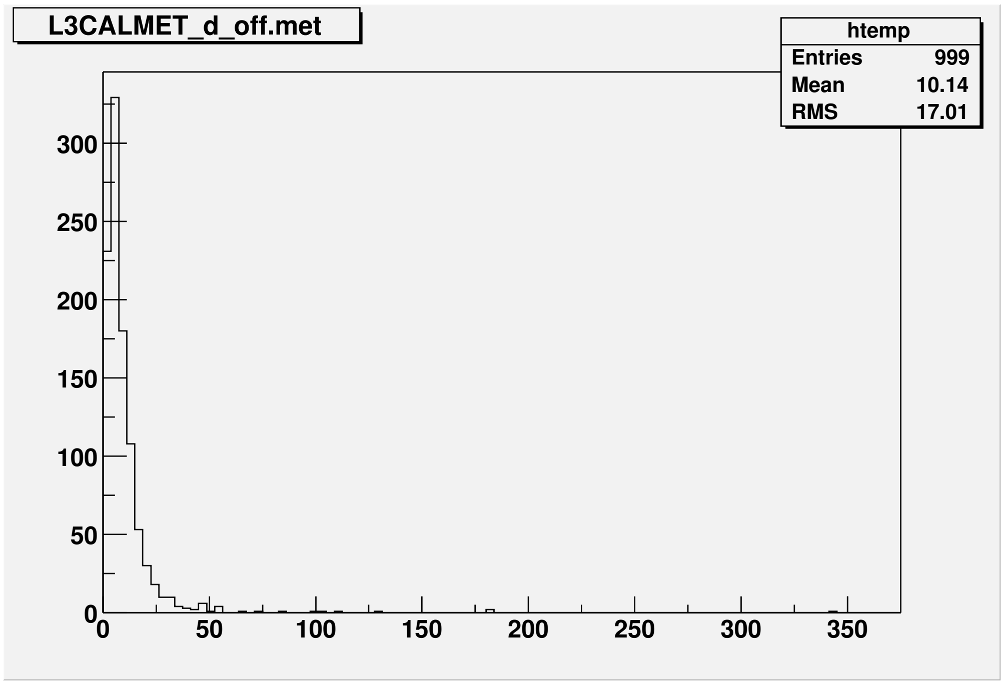
MET from run 154597, with the CH (eta max of 3.7).



MET from run 154597, without the CH.



MET from run 158535, with the CH (eta max of 3.7).



MET from run 158535, without the CH.