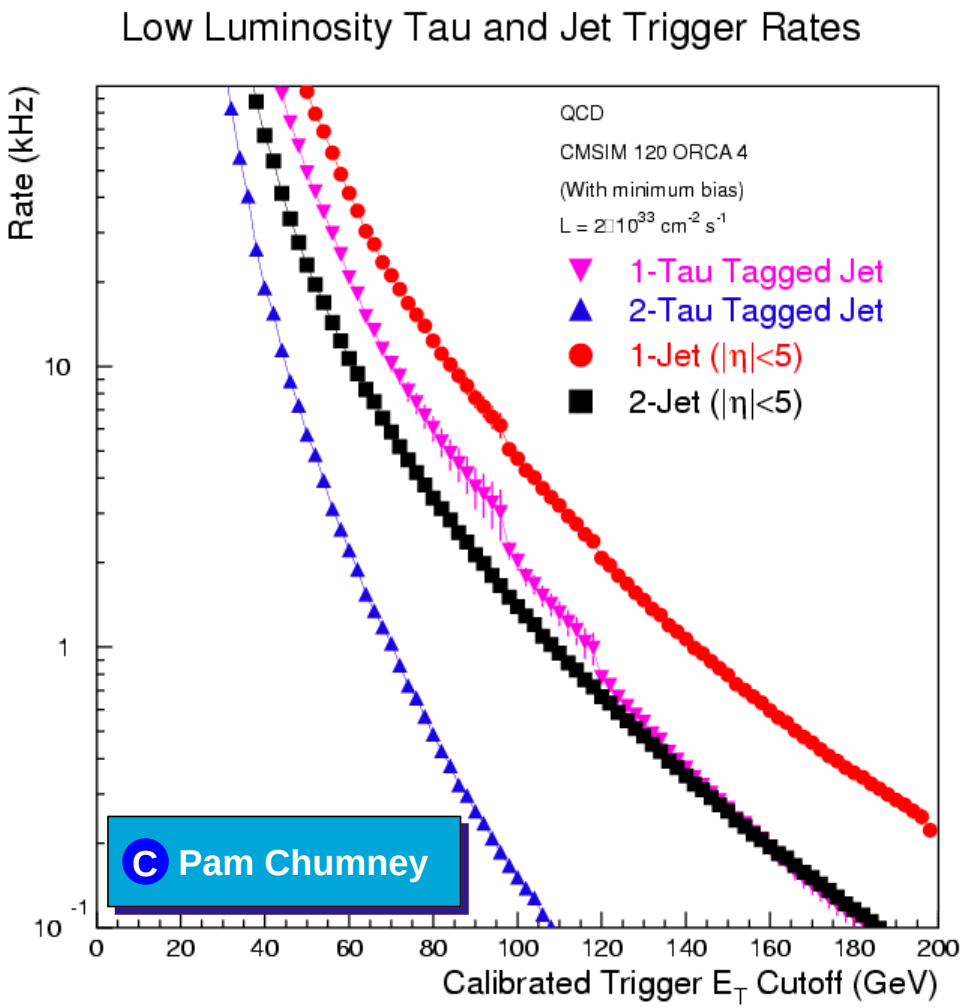
L1 JET RATES @ $2 \cdot 10^{33} cm^{-2} s^{-1}$

- **Most recent calculation with "proper" Branson weights**



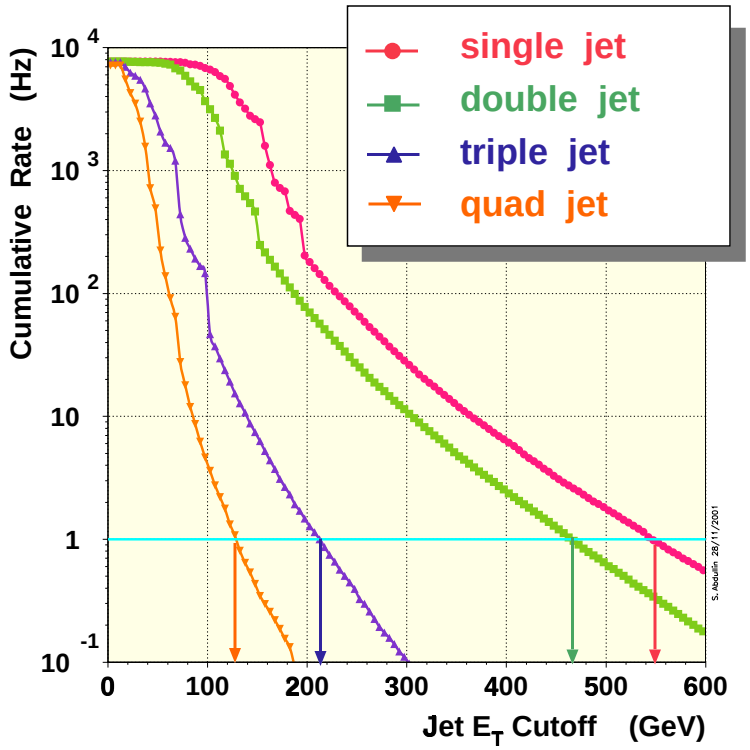
- ~ 180,000 from the entire HLT sample (> 1,000,000)
- Appropriate jet energy corrections for low lumi

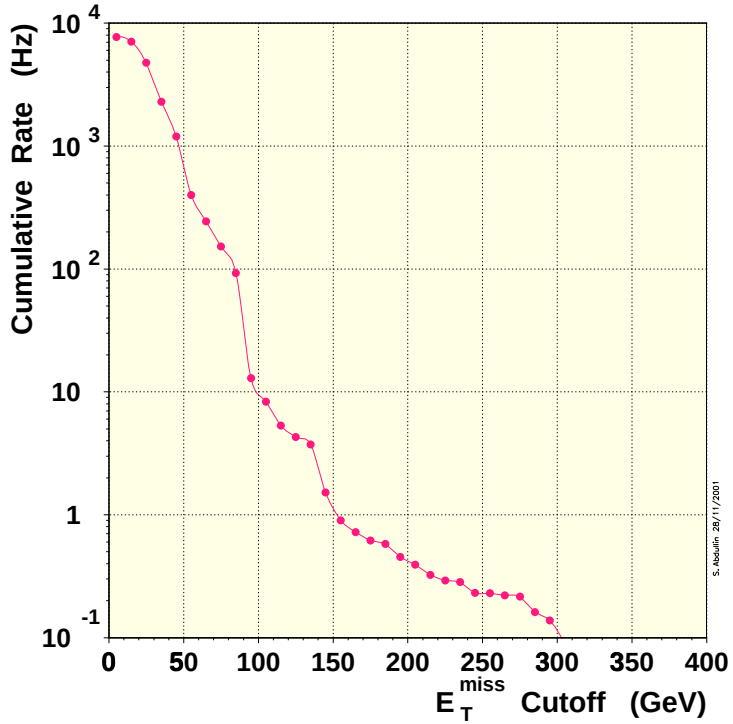
L2 JET/MET RATES WITH L1 SELECTION @ $2 \cdot 10^{33} cm^{-2} s^{-1}$

Jets

MET

- **L1 cuts taken from CMS IN 2001/42 (Wisconsin team)**
  - nominal 12.5 kHz L1 Trigger rate limit is assumed
  - L1 jet cuts : 120, 90, 70, 50 GeV for (respectively) single, double, triple and quadruple jets
  - L1 MET cut : 100 GeV (95 % at 275 GeV !)





- Jet energy corrections applied
- No MET corrections

INCLUSIVE SUSY L1 EFIICIENCY

- Signal individual (cumulative) trigger efficiencies (%)

Point	E_T cut (GeV)				
	j (120)	jj (90)	jjj (70)	jjjj (50)	MET (100)
1	91.5 (91.5)	81.1 (93.3)	58.6 (93.3)	38.2 (94.3)	67.2 (94.5)
2	97.5 (97.5)	93.1 (97.7)	81.6 (98.2)	65.6 (98.2)	88.3 (98.2)
3	98.7 (98.7)	94.8 (98.8)	76.0 (98.8)	53.9 (98.8)	95.8 (98.9)
B	93.2 (93.2)	85.6 (94.4)	66.4 (94.7)	43.7 (94.7)	75.1 (94.9)
C	95.5 (95.5)	89.7 (95.6)	69.6 (95.7)	48.0 (95.8)	86.7 (95.9)
E	59.3 (59.3)	53.5 (60.9)	50.3 (61.1)	46.7 (61.3)	42.5 (61.6)

L2 CUTS (FOR INCLUSIVE SUSY)

- Multijet (+ MET) cuts to suppress QCD rate to 1 Hz

E_T cut (GeV)

1j + MET	2j + MET	3j + MET	4j + MET	5j + MET
0÷200 + 155	100 + 135	50 + 120	50 + 85	50 + 75

1j	MET	2j	3j	4j
550	155	465	215	125