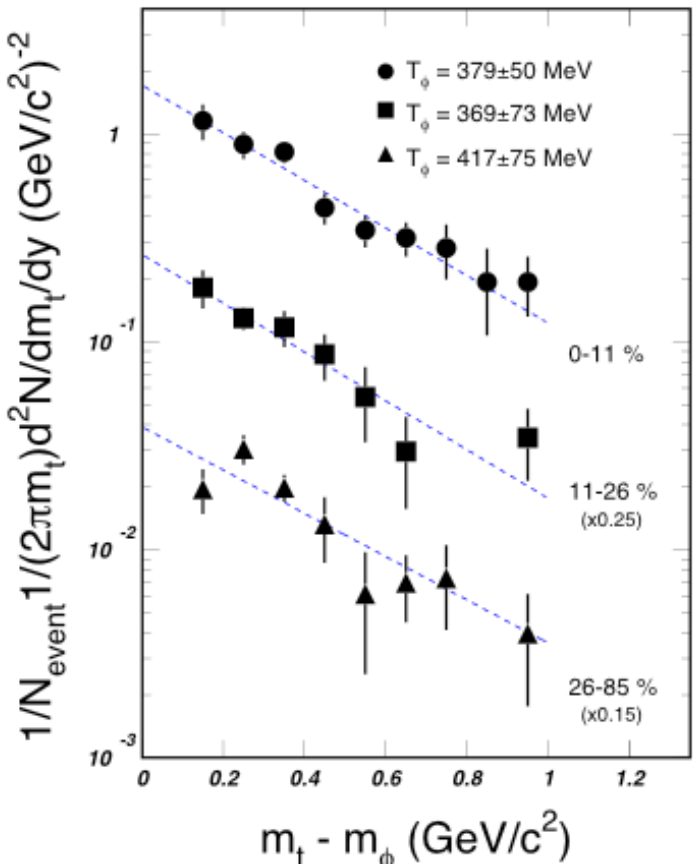
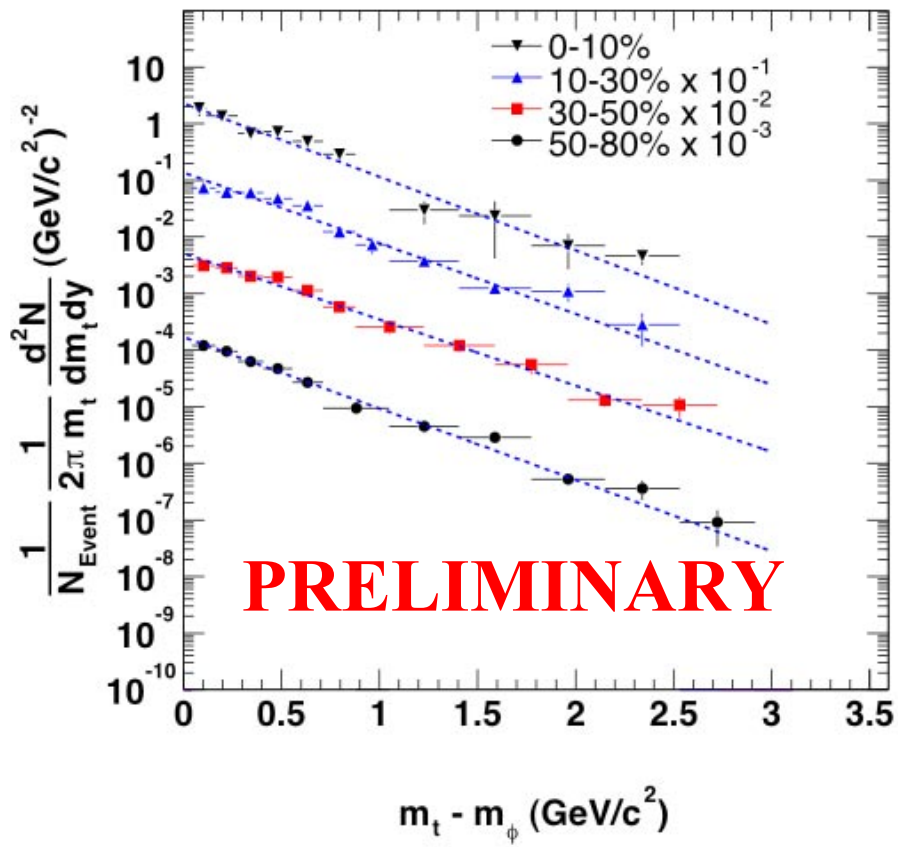
STAR Invariant Multiplicity

130 GeV



PRC, 65 041901(R) (2002)

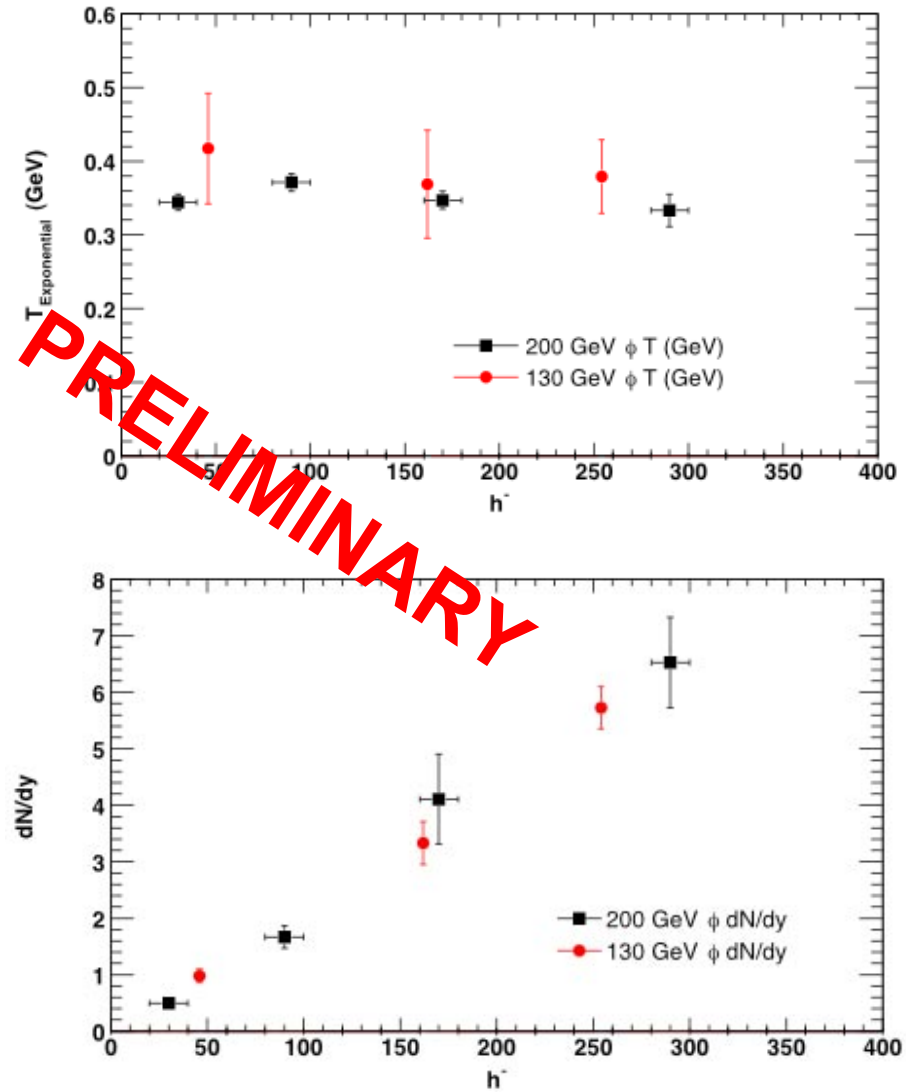
200 GeV



----- Mt exponential Fits

Yields and Fit Parameters

- **Results from:**
  - |y| < 0.5
  - Exponential fits to data
  - Statistical errors only
- **Within statistical uncertainties, exponential inverse slope parameter, T independent of centrality.**
- **Midrapidity yields scale linearly with h-.**
- **Statistical Errors only**



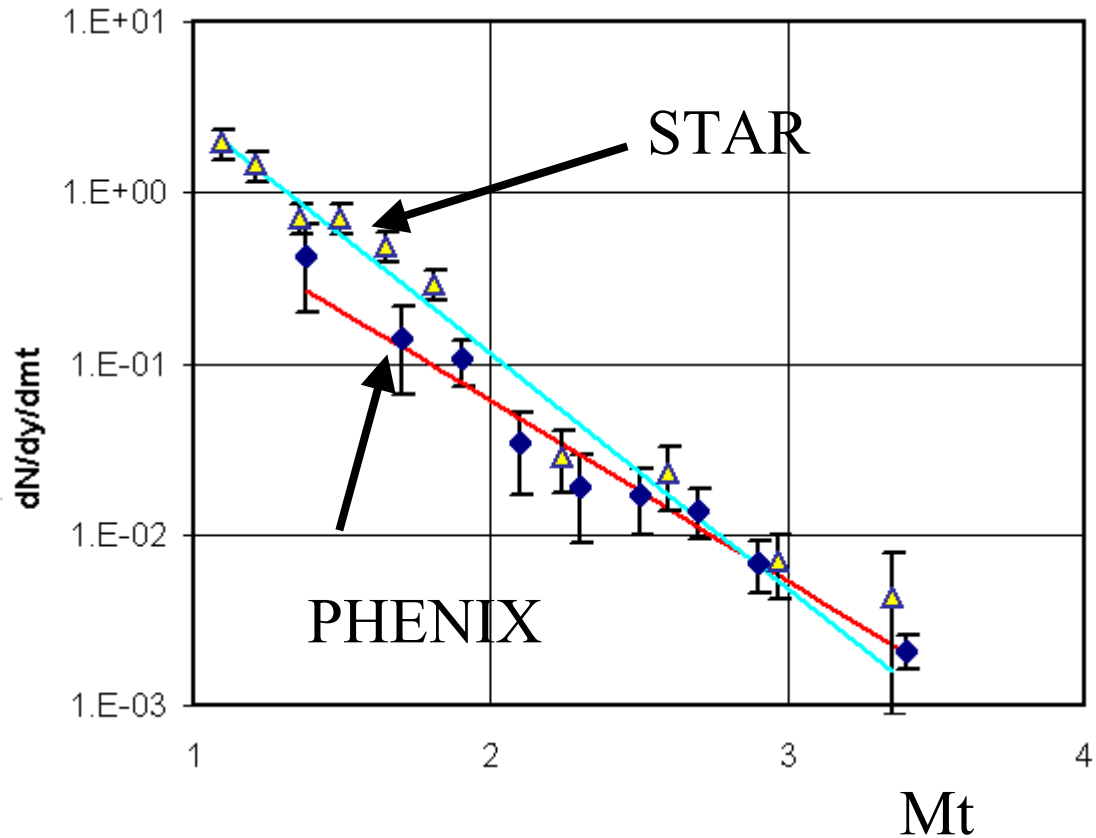
200 GeV 0-10% $\phi \rightarrow K^+K^-$

			fit value	chisq
		Sigma's		
dndy	2.414	0.65	2.69E-01	0.45
T	0.411	0.04	1.26E-01	0.04
chisq	3.362		7.74E-02	0.81
			4.76E-02	0.66
			2.92E-02	0.98
			1.80E-02	0.02
			1.10E-02	0.37
			6.78E-03	0.00
			2.00E-03	0.03

PHENIX TOF only

			fit value	chisq
		Sigma's		
dndy	6.719	0.56	2.02E+00	0.03
T	0.316	0.02	1.39E+00	0.06
chisq	12.259		8.78E-01	1.48
			5.71E-01	0.90
			3.51E-01	2.01
			2.09E-01	2.08
			5.27E-02	4.31
			1.73E-02	0.40
			5.28E-03	0.38

STAR



Discrepancy is <2GeV