PUBLICATION STRATEGY OF π AND K DATA AT 20, 30 A·GEV

M. G.

TWO STEP PROCEDURE:

- MAIN RESULTS → NATURE/SCIENCE/PRL
  (4 pages, 3 figures)

- FULL SET OF DATA → PHYS. REV. C
  (∞ pages, ∞ figures)

NATURE/SCIENCE/PRL

OBSERVATION OF DECONFINEMENT

? PHASE TRANSITION IN NUCLEUS-NUCLEUS COLLISIONS

? HAS DECONFINEMENT PHASE TRANSITION BEEN SEEN ?

⋮

3 FIGURES

FIG. 1

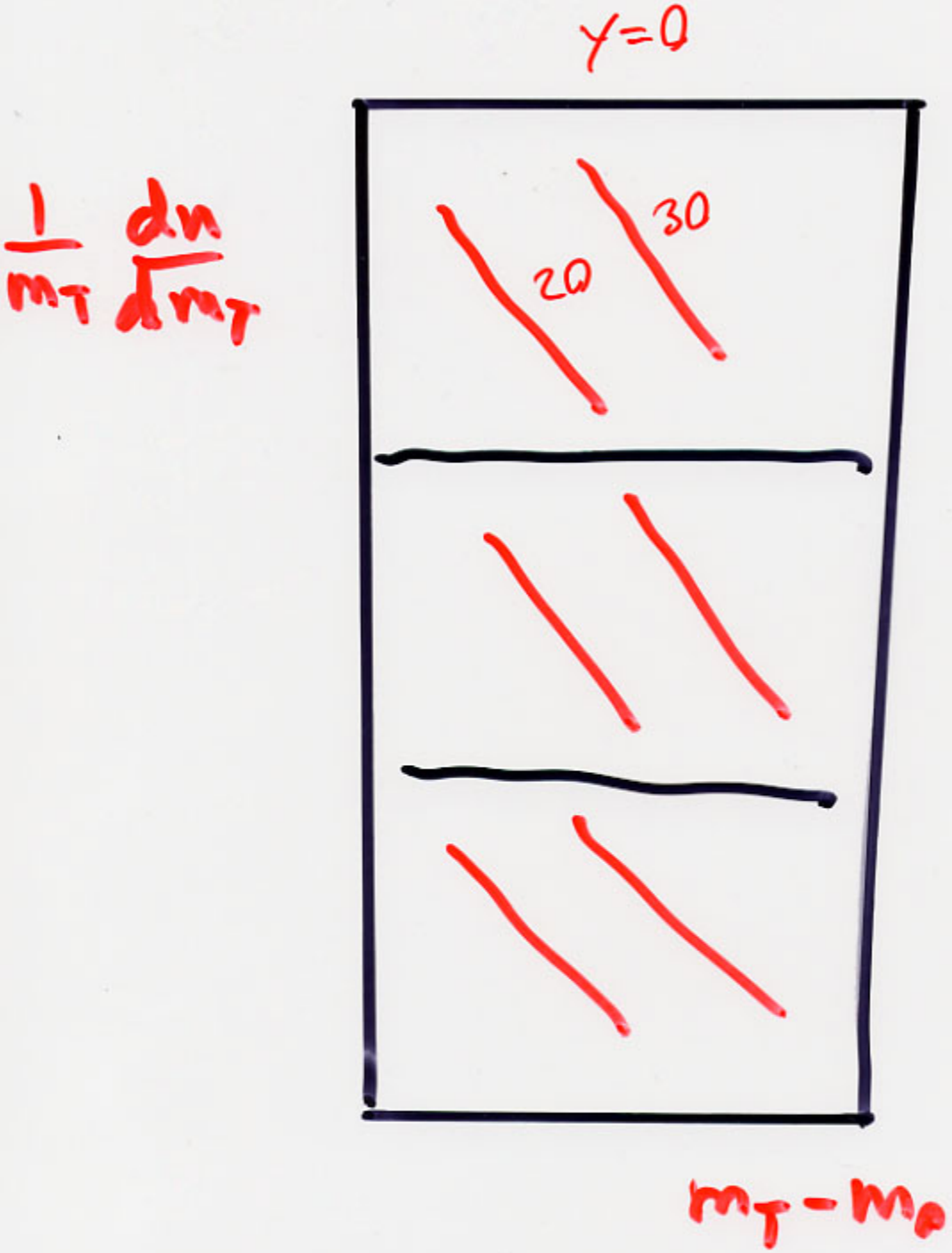


FIG. 2

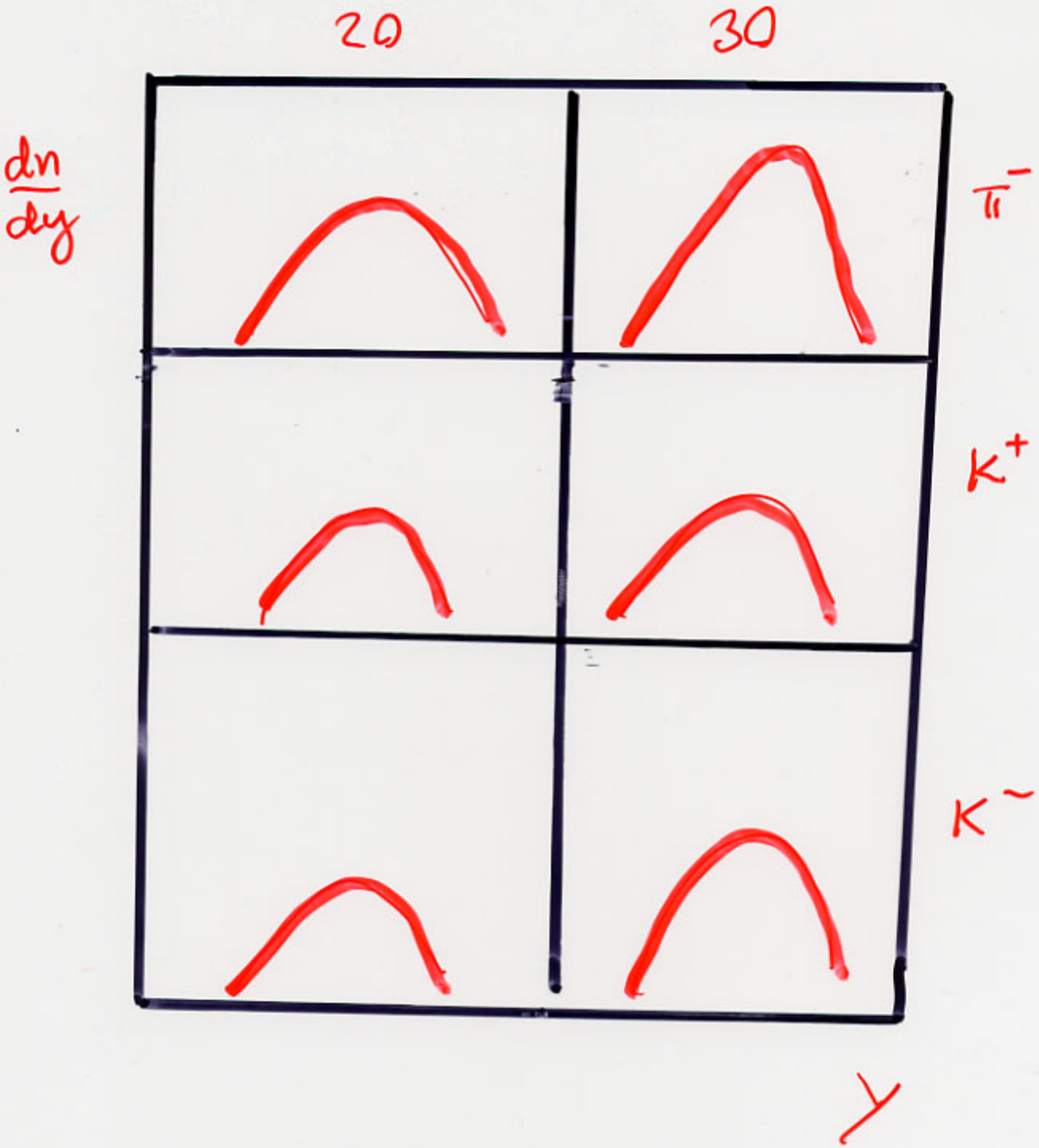
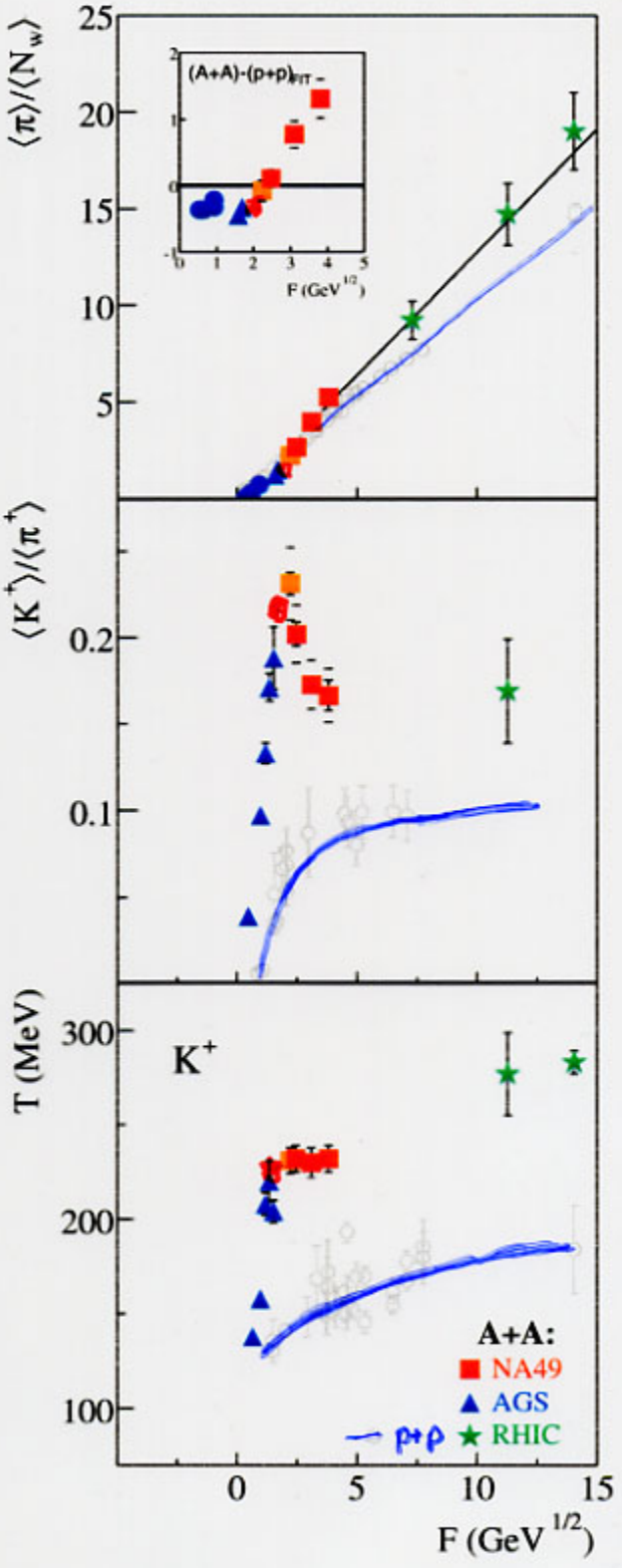


FIG. 3

+ SUMMARY OF CURRENT INTERPRETATIONS OF OUR DATA



PRESENTATION OF THE FULL DATA SET (PHYS. REV. C)

FIGURES:

$\frac{1}{m_T}\frac{dn}{dm_T}$ vs $m_T - m_0$

for π^-, K^+, K^- at 20, 30, 40, 80, 158 AGeV

at several rapidities

T vs $\sqrt{s}$, y, m

dn/dy vs y for all energies (compil)

σ, y_0 vs $\sqrt{s}$

particle ratios vs $\sqrt{s}$

$\langle\pi\rangle/\langle N_W\rangle$, $\langle K^+\rangle/\langle\pi^+\rangle$, $\langle K^-\rangle/\langle\pi^-\rangle$, $\langle K^+\rangle/\langle K^-\rangle$

K^+/π^+ K^-/π^- K^+/K^-

comparison with models

STILL TO DO:

- VENUS at 80, 158 AGEV (5K each) (MICHAEL)
- TRACKING EFF FOR 20, 30 FOR π^- (ROLAND)
- π^+/π^- RATIO FROM TOF AT 20, 30 GEV