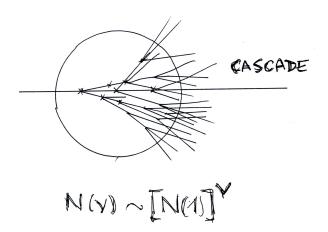
WOUNDED NUCLEONS, WOUNDED QUARKS: A PERSONAL STORY

A.Bialas, Cracow

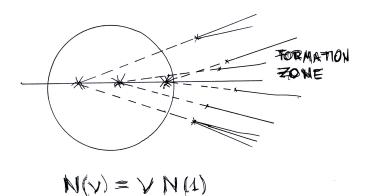
- 1. FORMATION ZONE
- 2. WOUNDED NUCLEONS
- 3. WOUNDED QUARKS
- 4. ASYMMETRIC EMISSION
- 5. LESSONS

INTRA-NUCLEAR CASCADE?



MIESOWICZ(LANDAU): FORMATION ZONE

$$L = \gamma/m_{\perp} = E/m_{\perp}^2$$



WOUNDED NUCLEONS (1975-6)

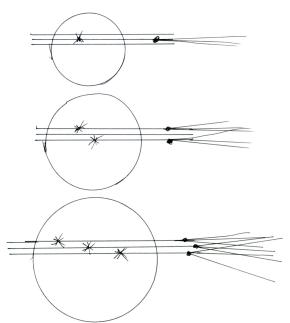
BUSZA:
$$N(v) = \frac{v+1}{2} N(1)$$

WOUNDED

WUCLEONS

 $N(v) = (v+1) N_w$

WOUNDED QUARKS (1977)



THE MUNICH PAPER (1982)

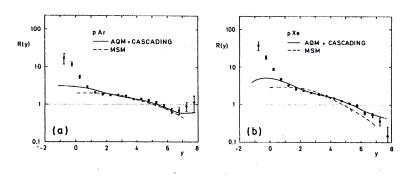


Figure:

THE PHOBOS PAPER (2005)

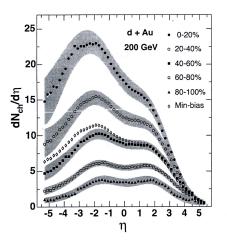
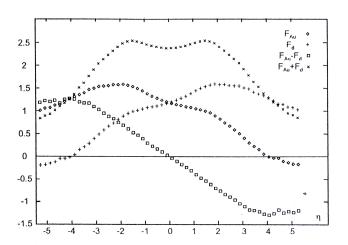


Figure: Pseudo-rapidity distribution in d-Au at \sqrt{s} =200GeV

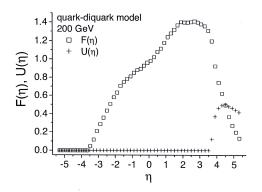
W.CZYZ and AB: ASYMMETRIC EMISSION (2005)

EMISSION FROM THE WOUNDED NUCLEONS DATA FROM PHOBOS



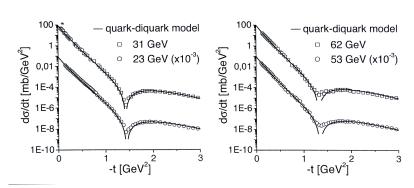
A.BZDAK and AB: QUARK+DIQUARK (2007)

EMISSION FROM A SINGLE QUARK/DIQUARK



QUARK+DIQUARK: SPIN-OFF

ELASTIC P-P SCATTERING IN THE QUARK-DIQUARK MODEL



LESSONS

- 1. THE PERSONAL STORY CAME TO THE END but THE HISTORY CONTINUES: THE MODEL STILL ALIVE
- 2. CONCEPTS ARE MORE IMPORTANT THAN DETAILS
- 3. PROTON-NUCLEUS vs NUCLEUS-NUCLEUS : PROBLEM OF THE QUARK-GLUON PLASMA
- 4. SLOWLY CRAWLING ANTS: INTELLIGENT APPROXIMATIONS ARE CRUCIAL!
- 5. HUMAN BRAIN DOES NOT TAKE THE SHORTEST PATH