

Concluding remarks

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**3rd Int. Workshop on High-pT Physics at LHC
Tokaj, Hungary
19 March 2008**

Statistics:

45 participants, 4 days together, 30 talks

Countless questions, lot's of problems

--- increased the efficiency of the workshop;

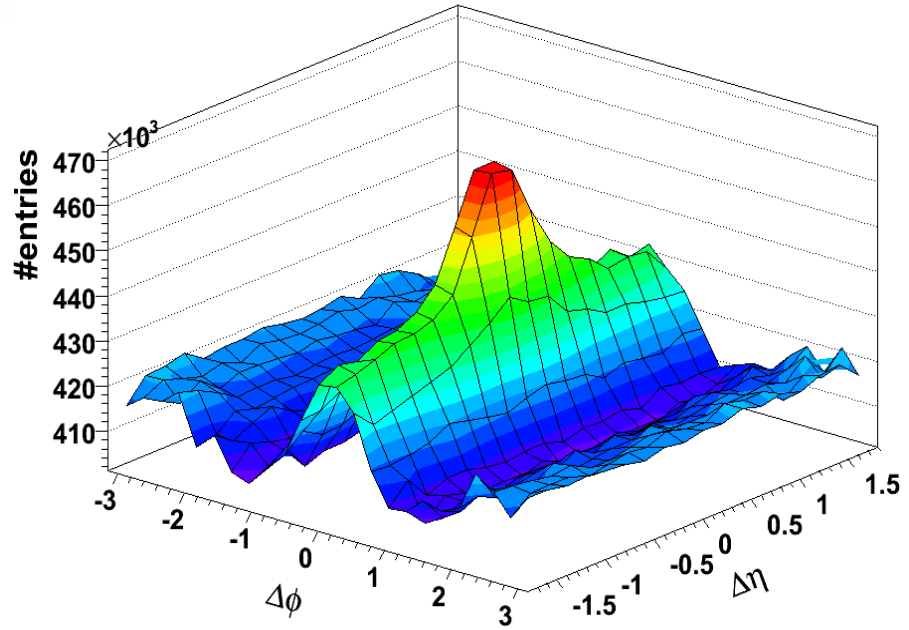
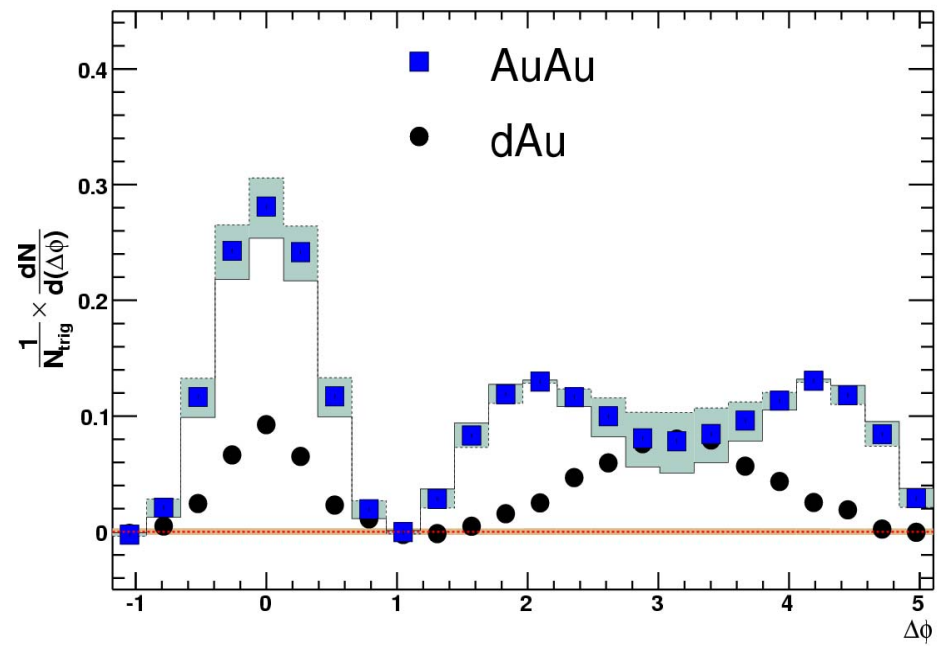
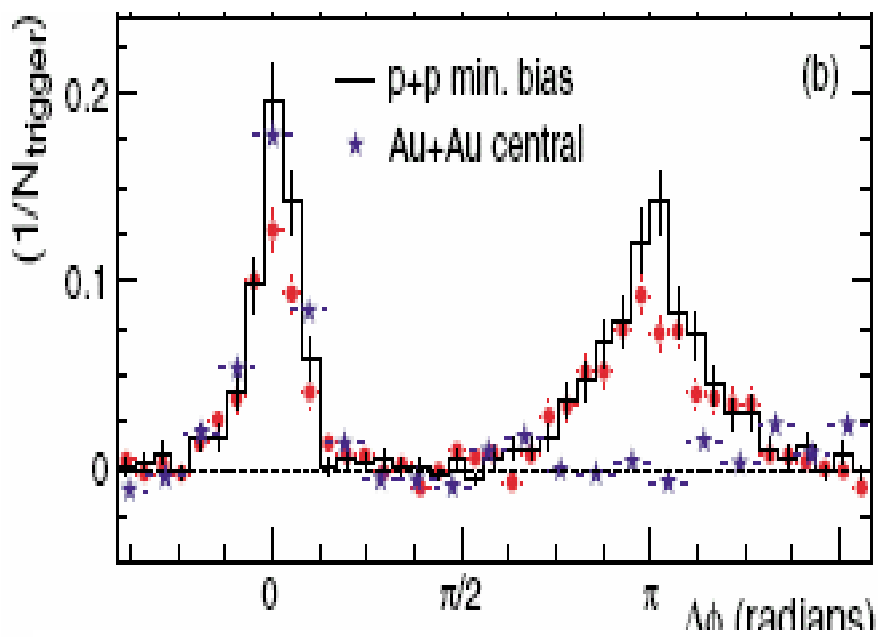
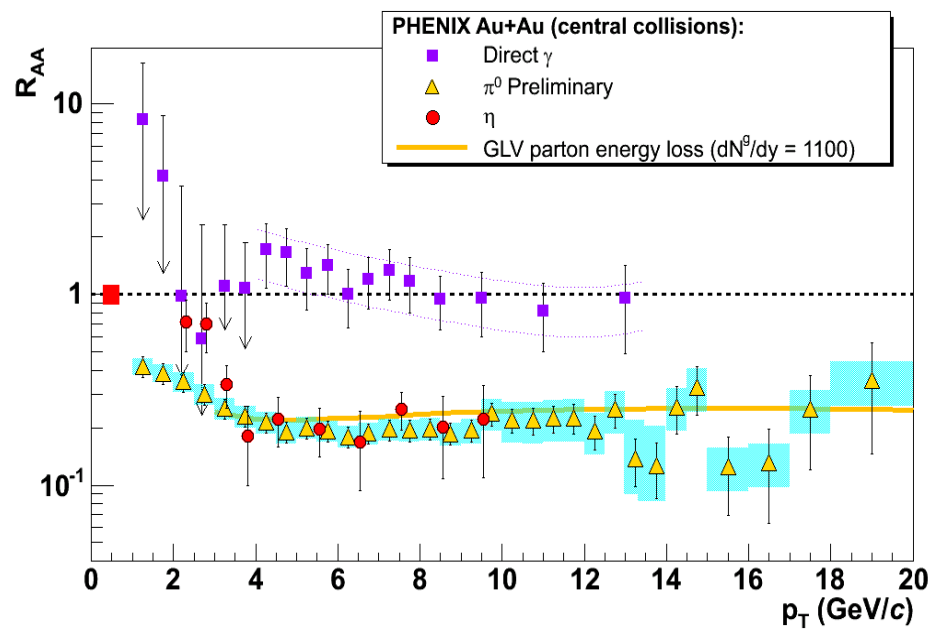
Uncounted bottles of Tokaj wine

**--- slightly decreased the efficiency,
but increased the enthusiasm;**

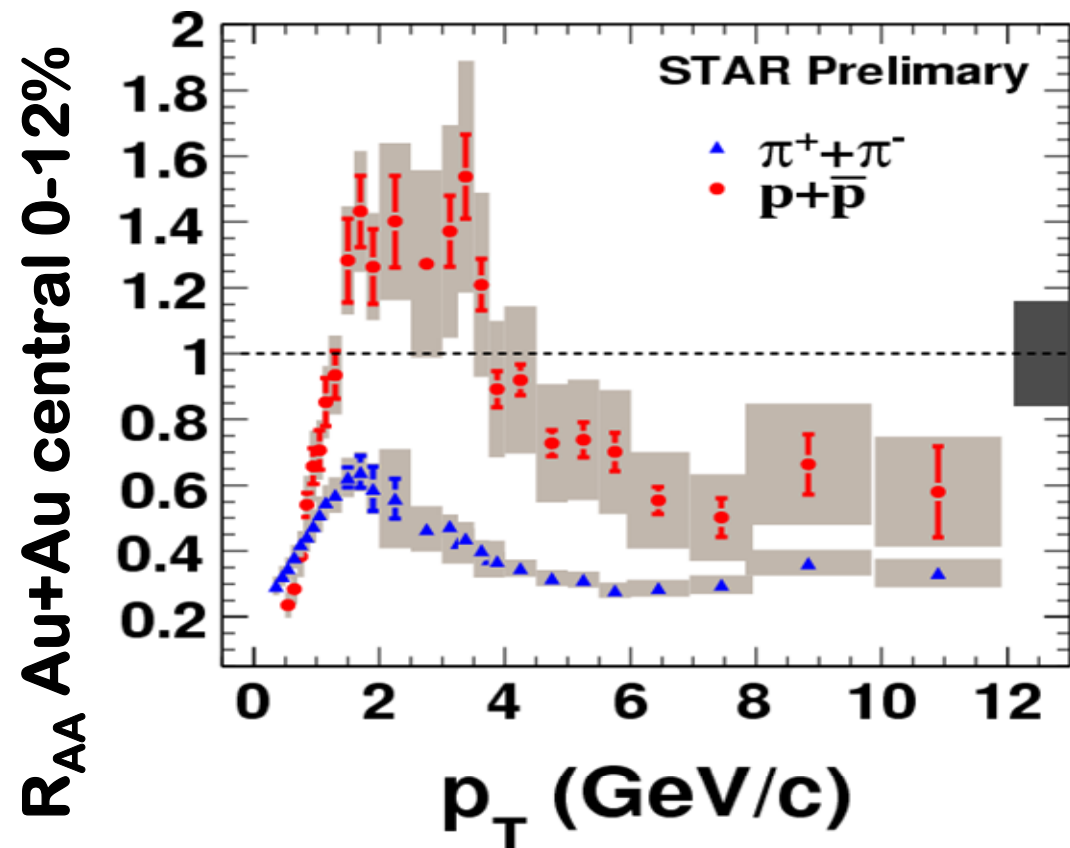
--- successfully substituted

**the Finnish reindeer meat served in Jyvaskyla
the Italian grappa served in Trento**

The embarrassing richness of exp. data from RHIC --- from B.A. Cole's talk

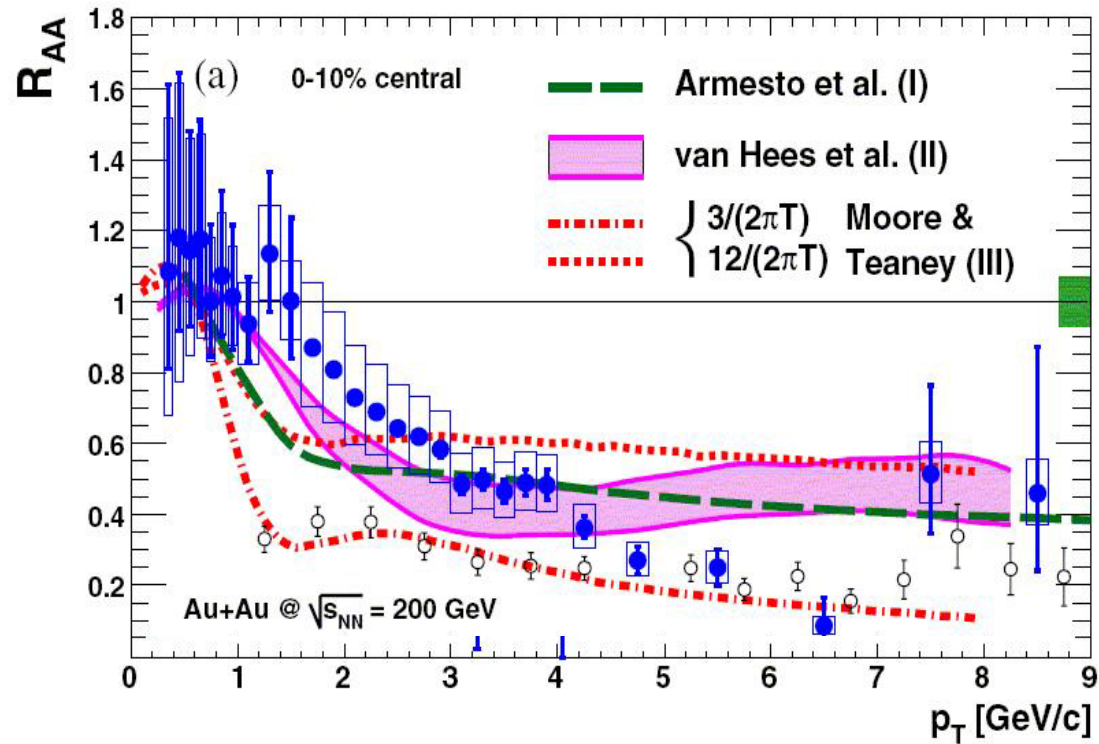


When we think that we understand these data at RHIC (e.g. jet-quenching), then new data are coming and we are puzzled – again and again.



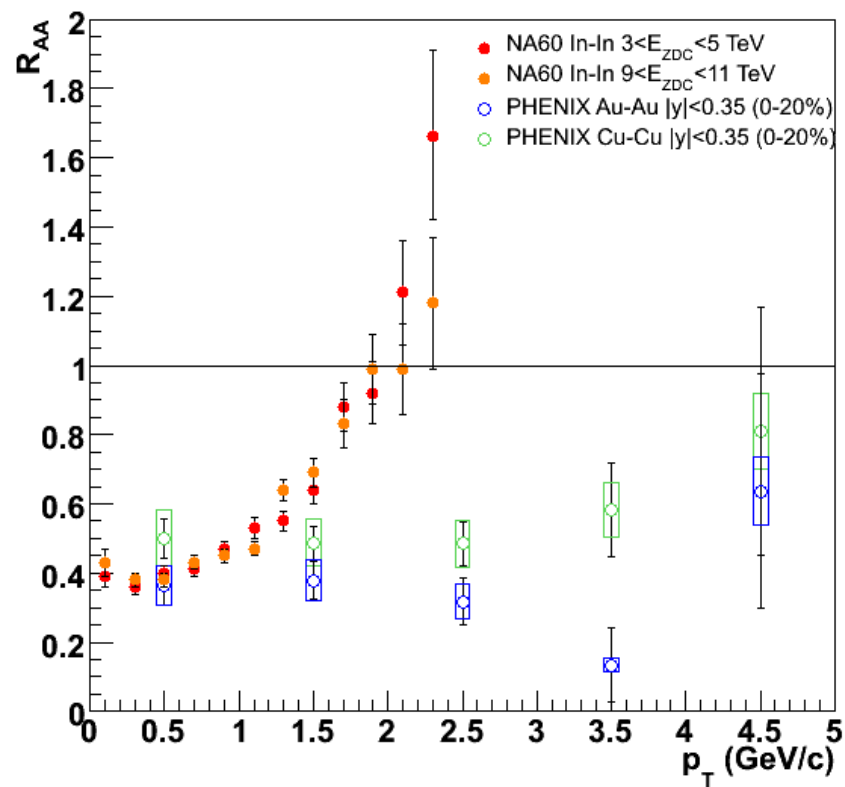
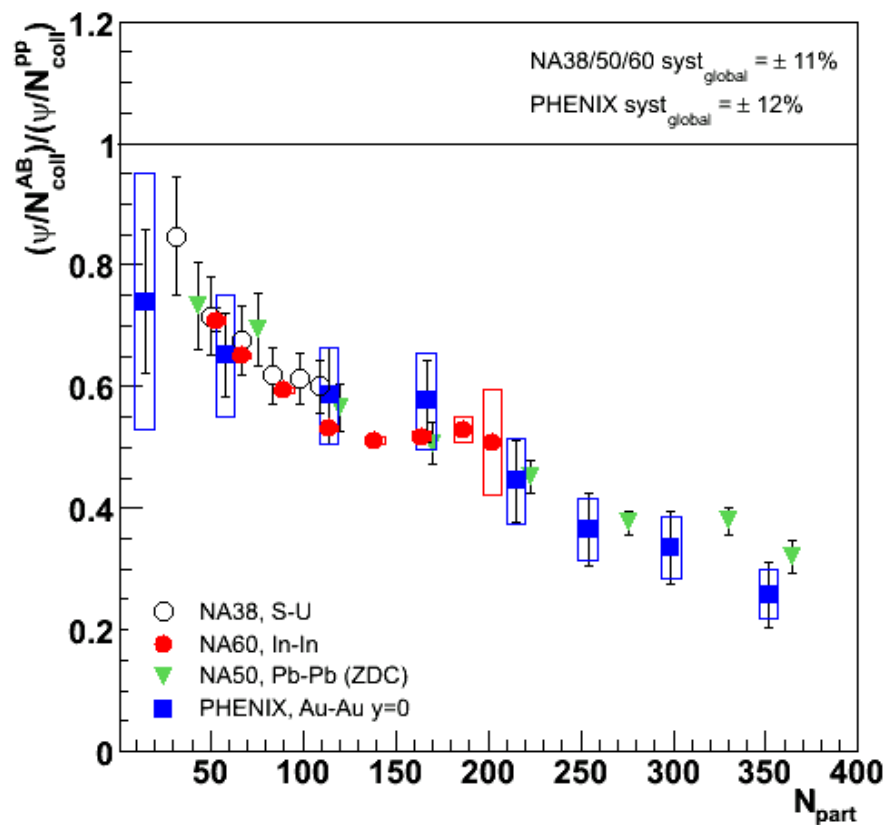
Bedanga (STAR) from QM08

Anothe example is charm production:



R_{AA} for single electron --- indicating open charm suppression

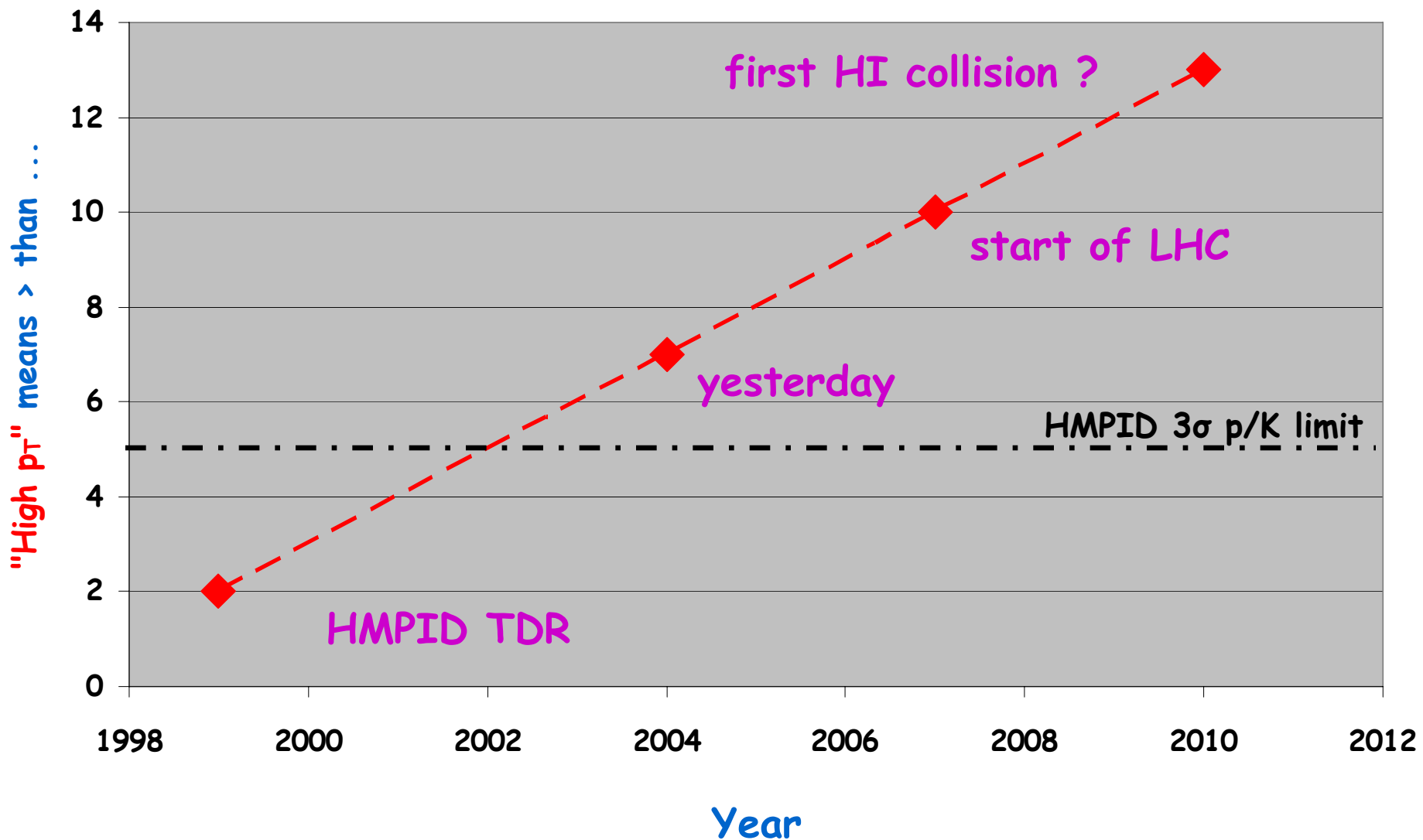
J/psi suppression at SPS and RHIC --- do we see the same effect ?



from the talk of N. Topilskaya (NA61)

What about LHC ???

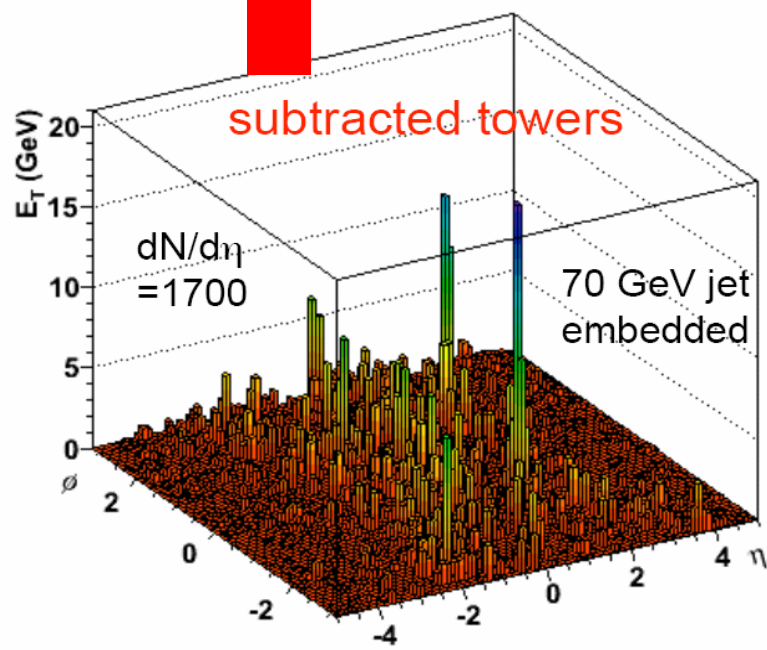
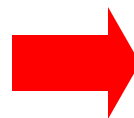
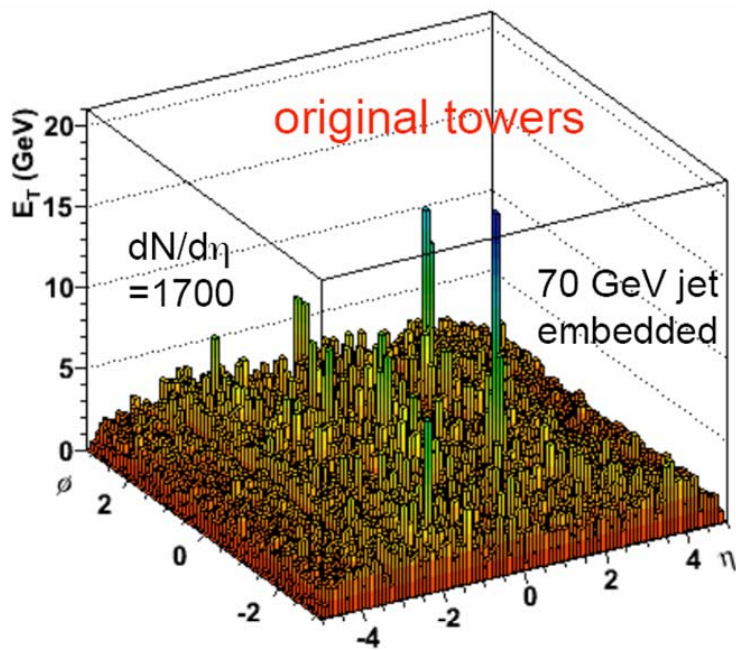
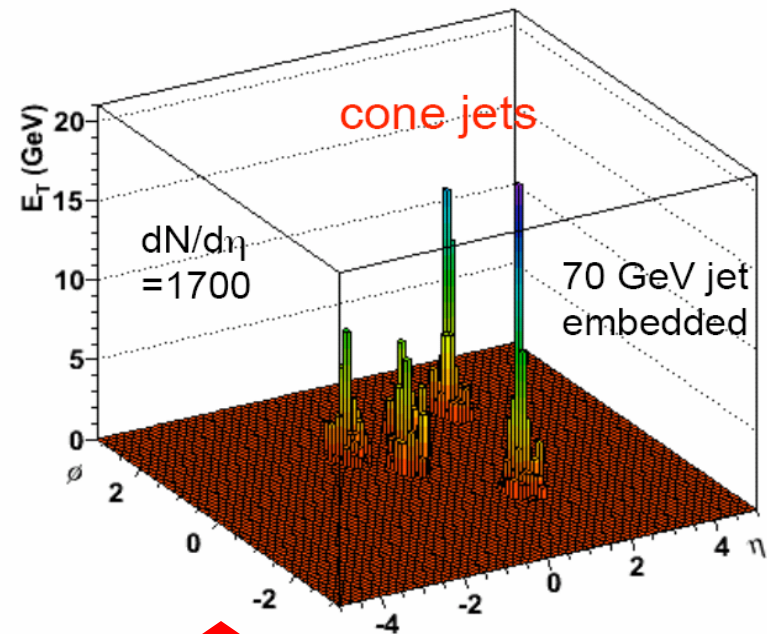
Evolution of the meaning of "high p_T "



From Paolo Martinengo's talk

Jets in Pb+Pb collisions at LHC
Separation is hard,
but can be done

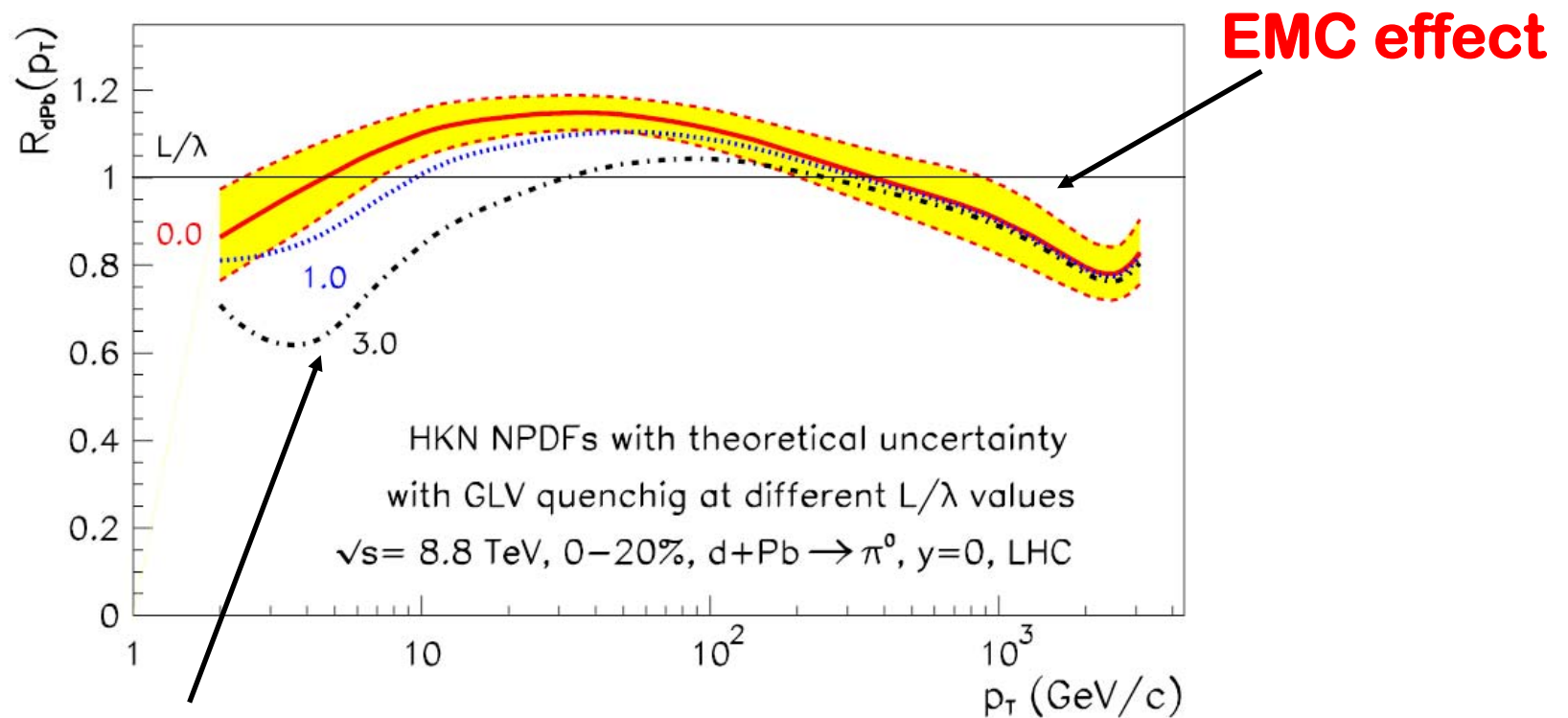
From Brian Cole's talk (ATLAS)



Expected nuclear modification factor at the LHC

central rapidity

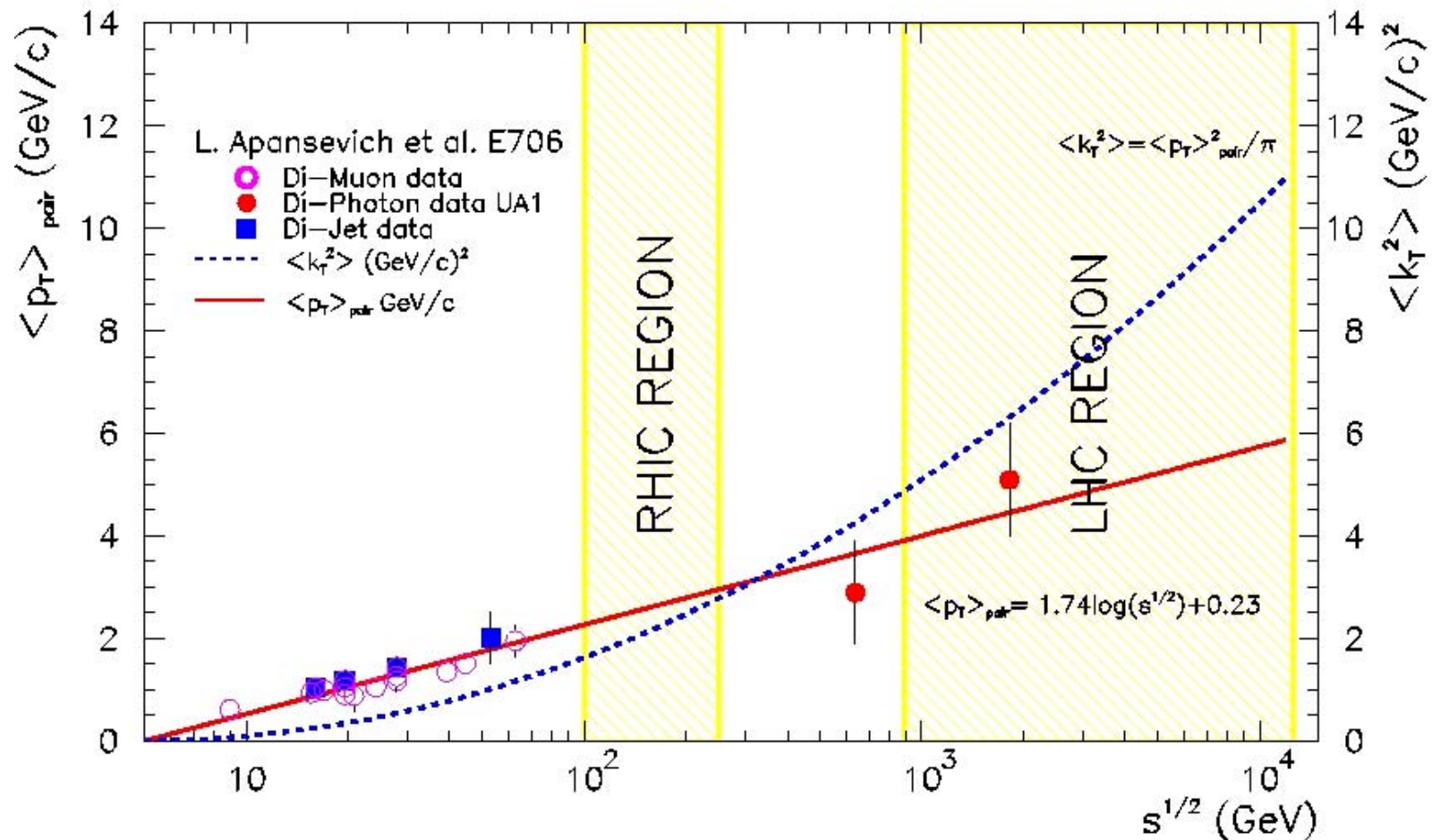
HKN without k_T



possible effects of jet quenching

From G. Fai's talk

Intrinsic transverse momentum width in the proton

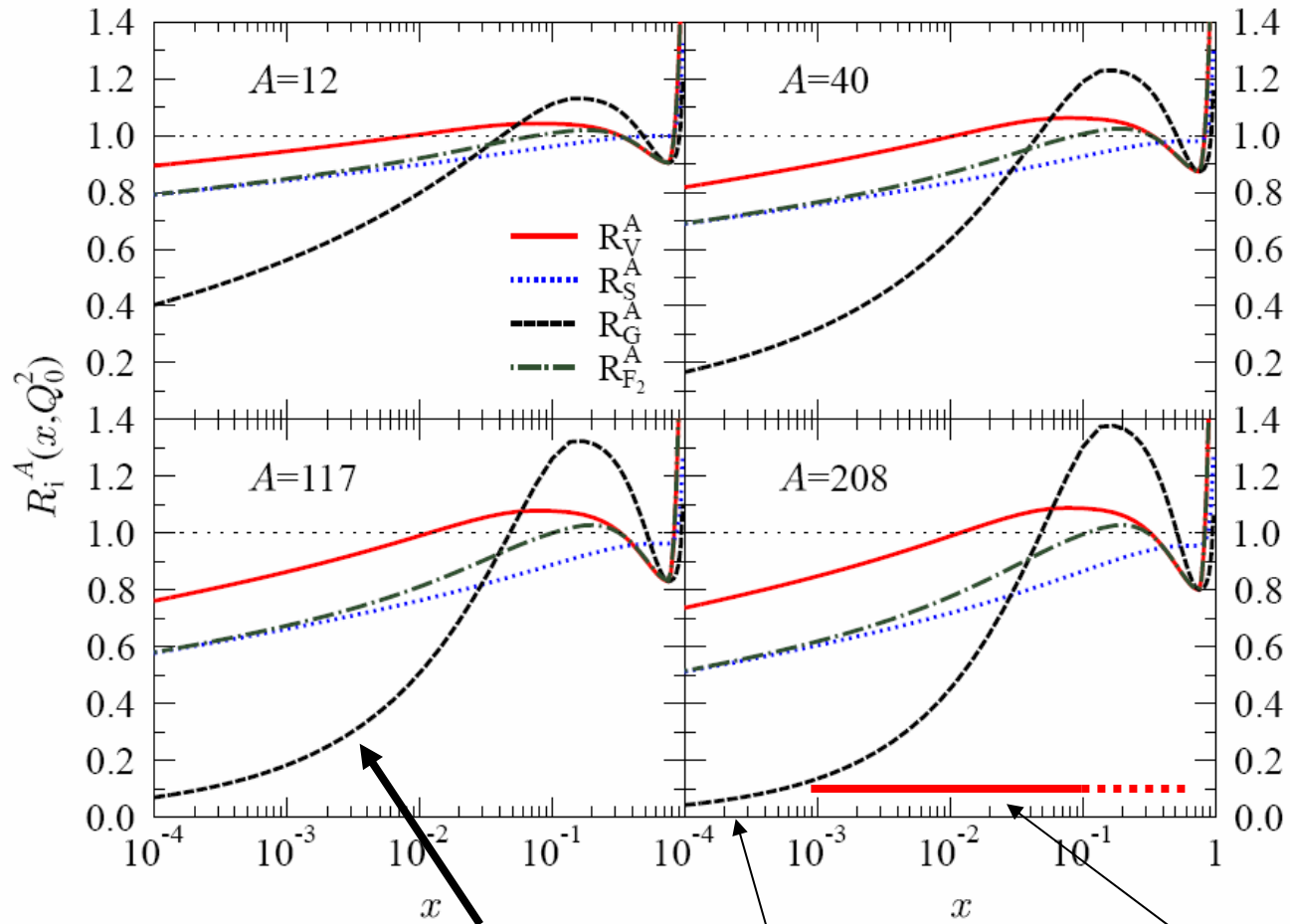


We will have problem from the huuuuuge k_T -imbalance in jet-jet correlation from G. Fai's and D.J. Kim's talk

Great progresses on shadowing functions (from K. Eskola's talk)

-- consequences !!?

The EPS08 nuclear effects at the initial scale $Q=1.3$ GeV



Note the **strong** gluon shadowing!

Unconstrained region

Constrained region

Tokaj'08:

New results

New questions

We must come together again.

Many thanks for coming to TOKAJ

and see you soon !