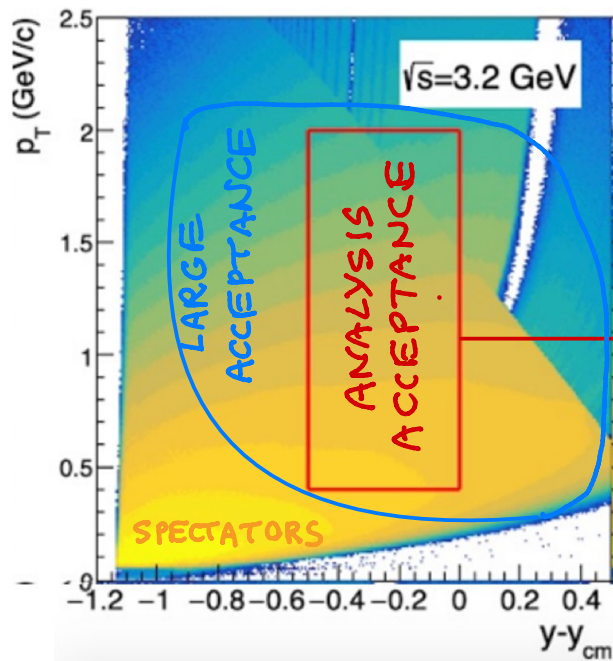
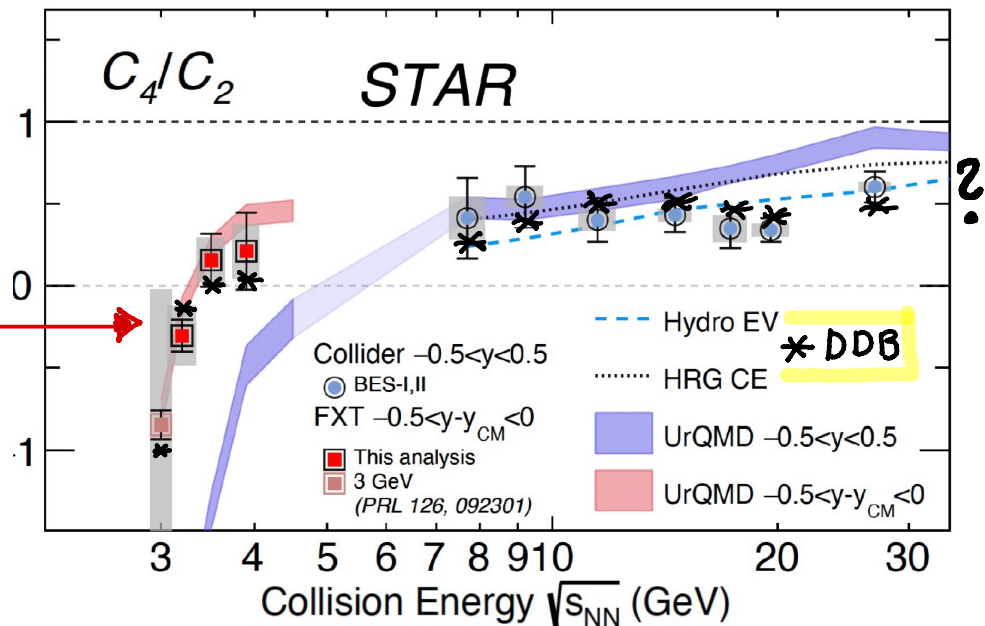


DATA-DRIVEN BASELINE (DDB) FOR CP SEARCH

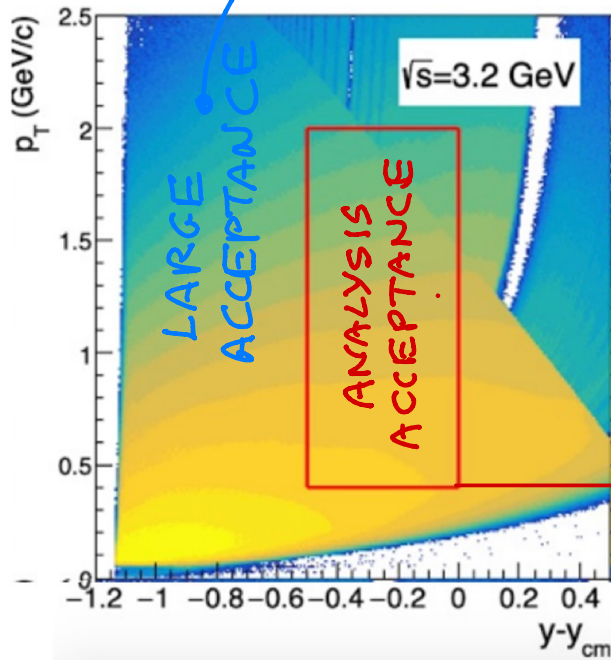
MAREK



AA C LA



THE PROCEDURE TO CALCULATE DDB



MULTIPLICITY DISTRIBUTION $P_{LA}(N)$
SINGLE PARTICLE SPECTRA $S_{LA}(\vec{p})$

THE DDB MODEL

$$P_{LA}(N), S(\vec{p}_1 \dots \vec{p}_N) = S(\vec{p}_1) \dots S(\vec{p}_N)$$

(MC: EVENT MIXING)

$P_{AA}(N)$ IN ANALYSIS ACCEPTANCE

DDB C_4/C_2
IN AA

DATA C_4/C_2
IN AA

AND SO ON...

ADVANTAGES:

- DDB INCLUDES VOLUME FLUCTUATIONS (NO NEED TO CORRECT FOR $V F^*$)
- DDB INCLUDES GLOBAL MATERIAL CONSERVATION LAWS (NEW)
- ...

CHALLENGES:

- INCLUDE IN DDB TWO (MULTIPARTICLE) EFFICIENCY (ANY BASELINE SHOULD INCLUDE IT)
- ...

REFERENCE MODEL:

IDEAL GAS
+ CANONICAL ENSEMBLE
+ VOLUME FLUCTUATIONS

↓

MODEL = DDB

* OTHER METHODS TREATING VOLUME FLUCTUATIONS:

- STRONGLY INTENSIVE QUANTITIES ($MG^2 + \dots$)
- WNM UNFOLDING (ANAR, JOACHIM, ROMAIN, VOLKER ...)