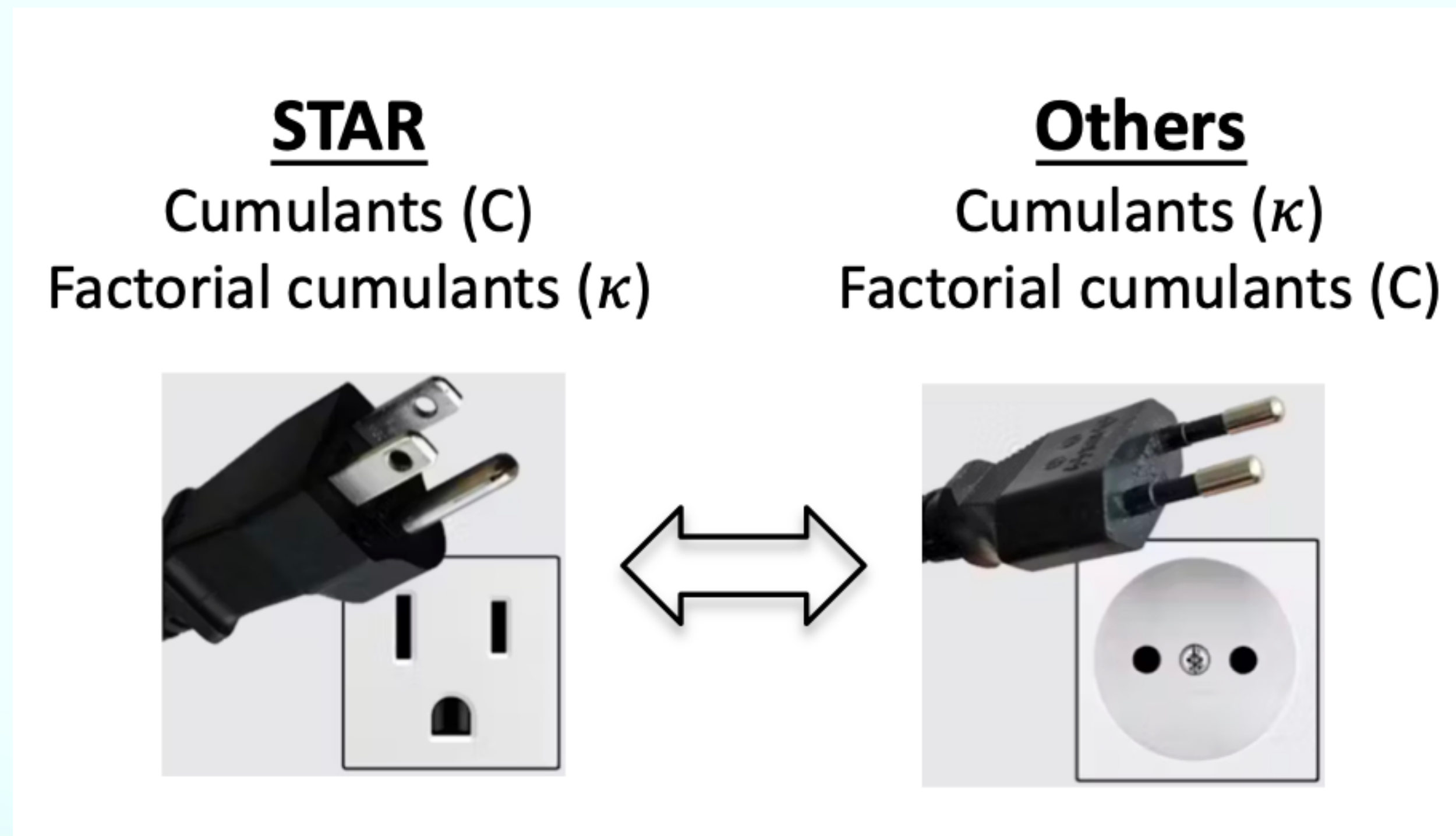
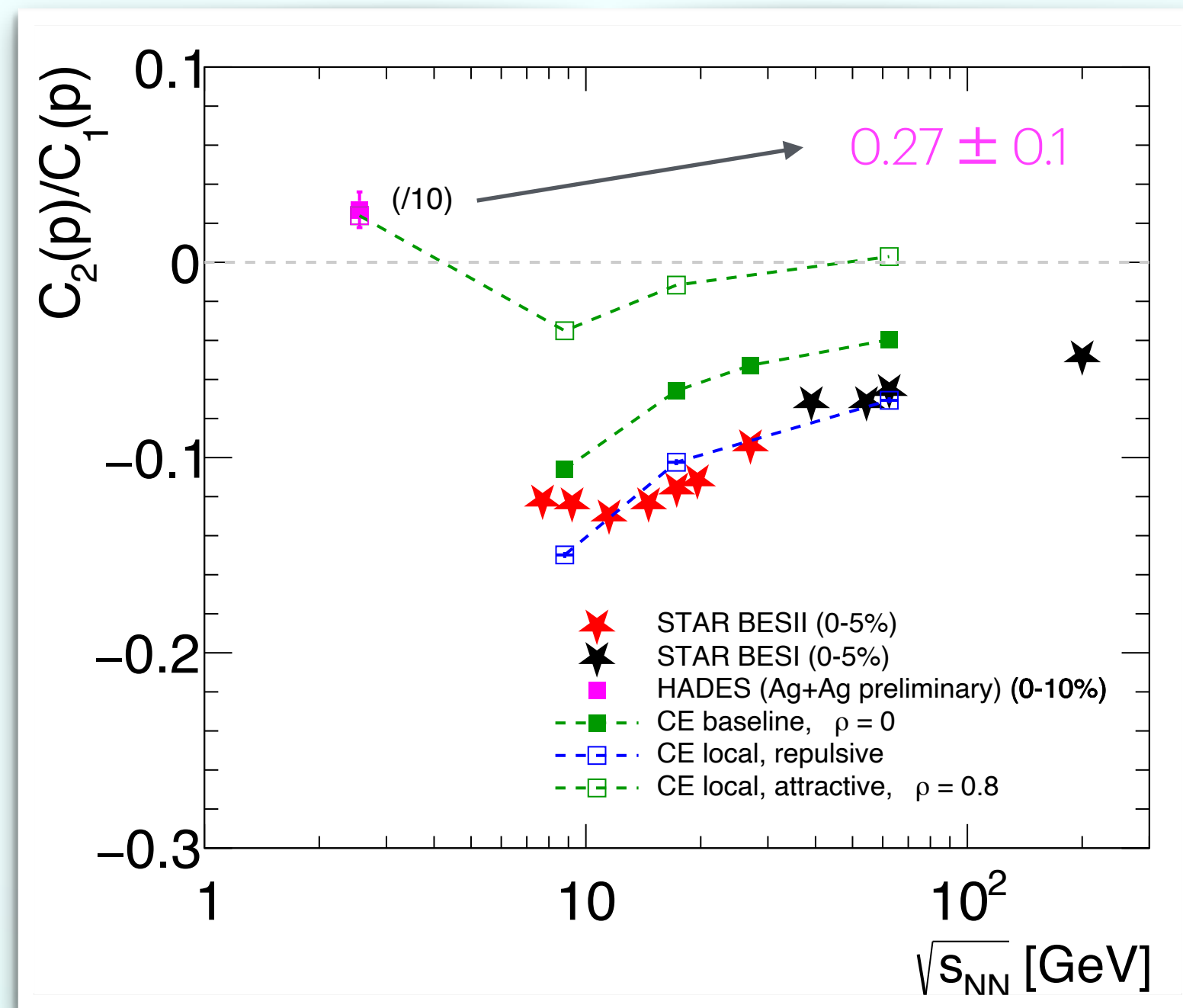


HADES vs. STAR FXT data

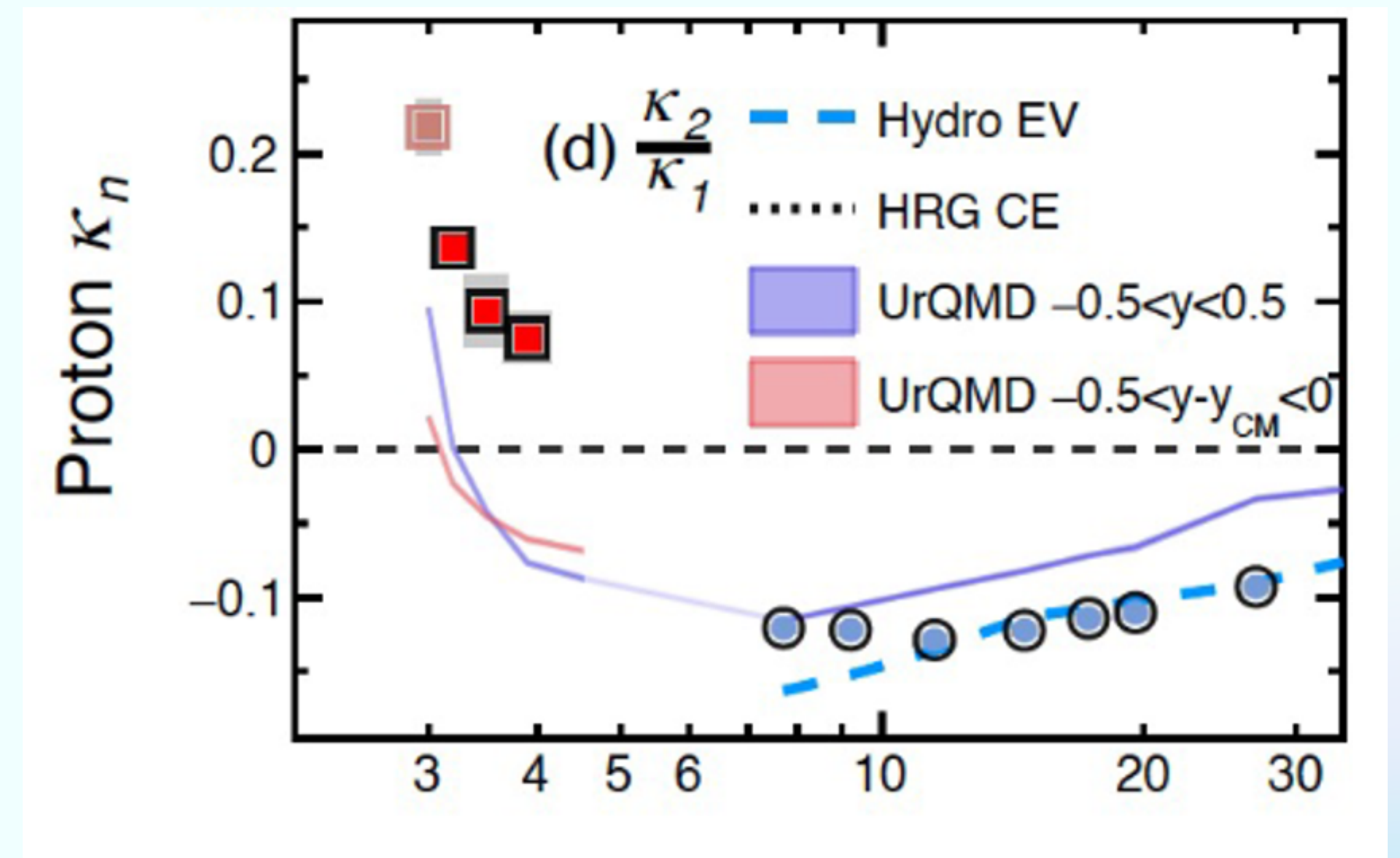


Mesut Arslanok, QM 2025

HADES vs. STAR FXT data, C_2/C_1



HADES: $-0.4 < y < 0.4$, $0.4 < p_t < 1.6$ GeV/c



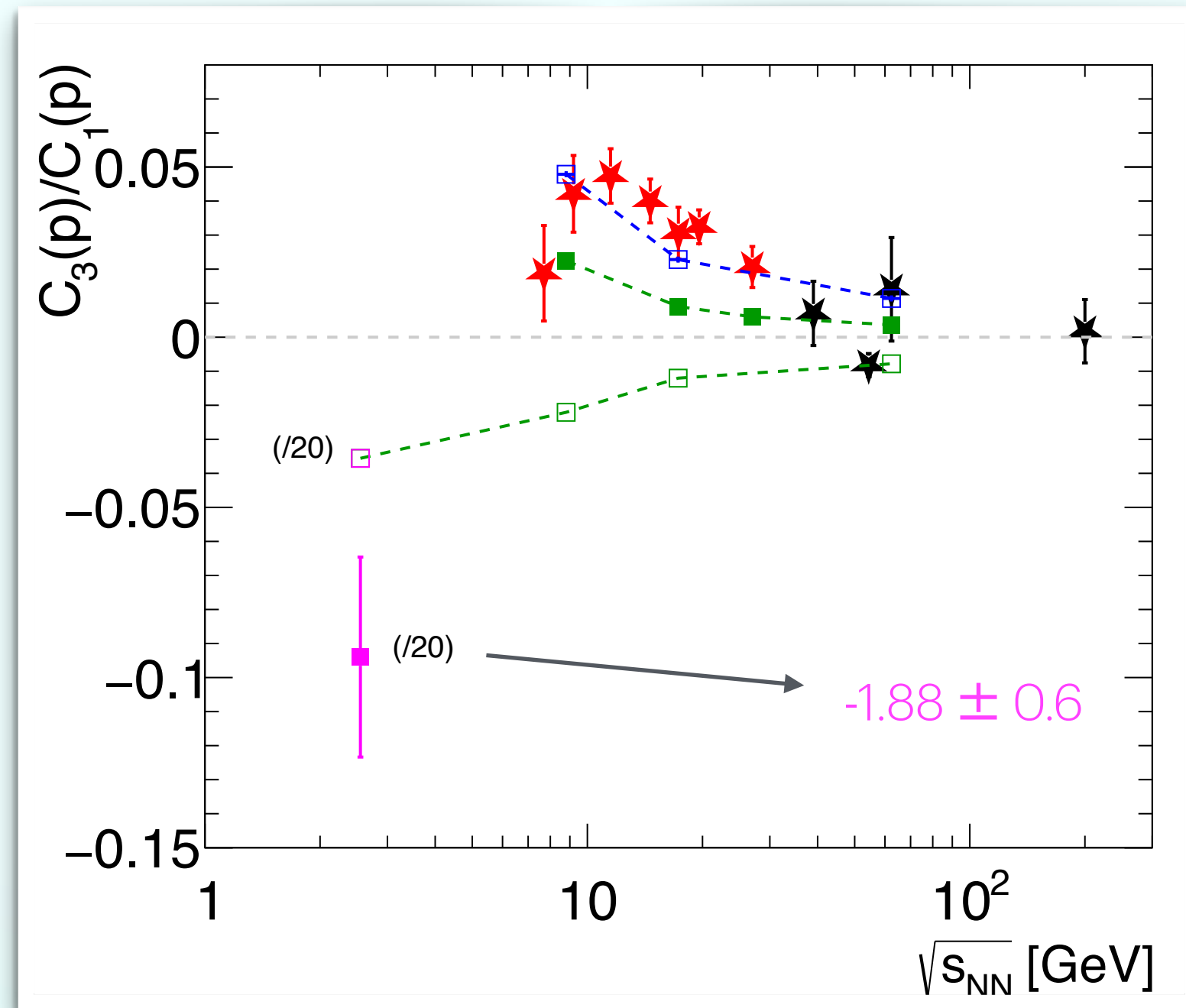
STAR FXT Data: $-0.5 < y < 0$, $0.4 < p_t < 2$ GeV/c

Both HADES and STAR FXT show sharp increase in C_2/C_1 and **sign change**

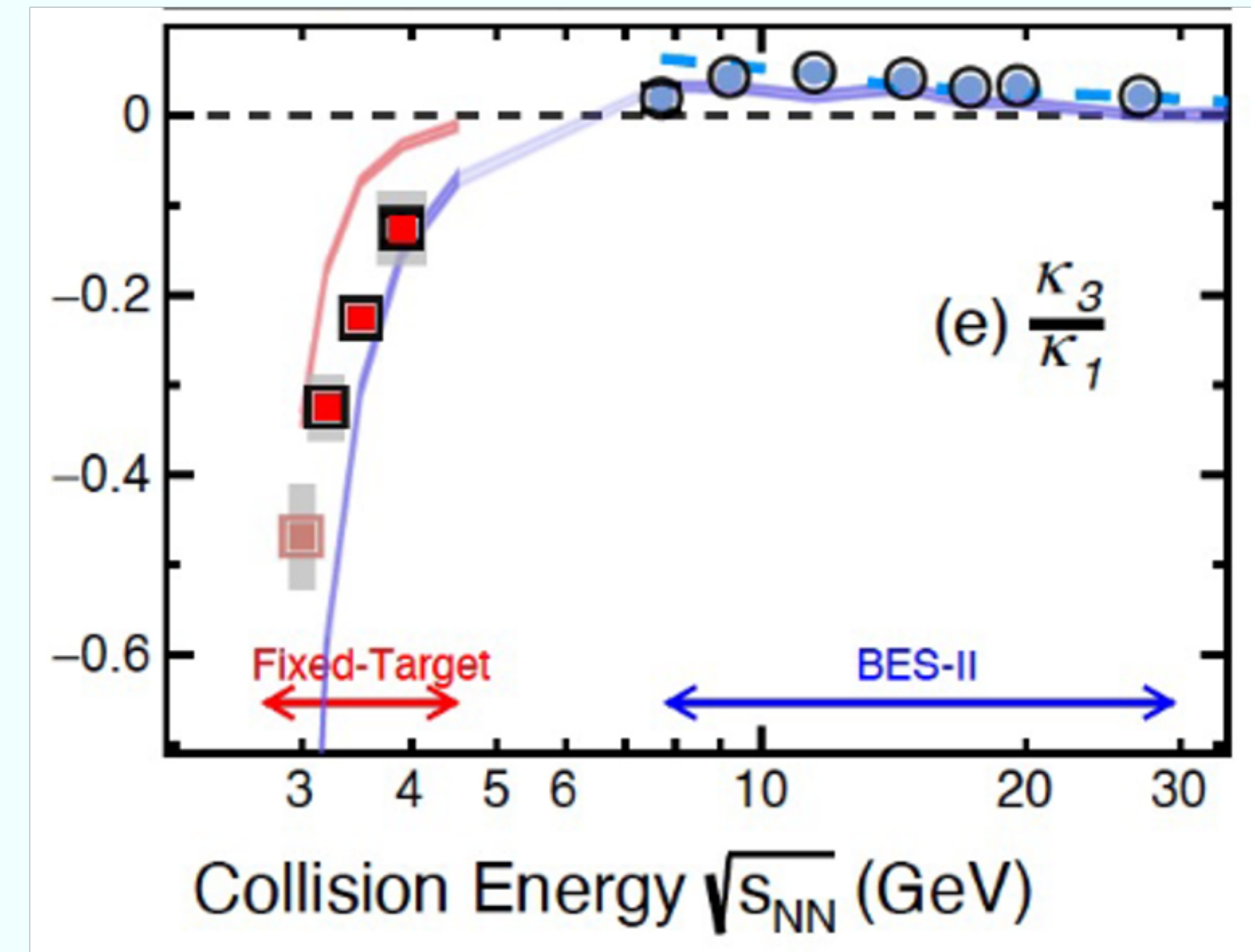
For a quantitative comparison

Differences in acceptance should be accounted for
Corresponding baselines need to be calculated

HADES vs. STAR FXT data, C_3/C_1



HADES: $-0.4 < y < 0.4$, $0.4 < p_t < 1.6$ GeV/c



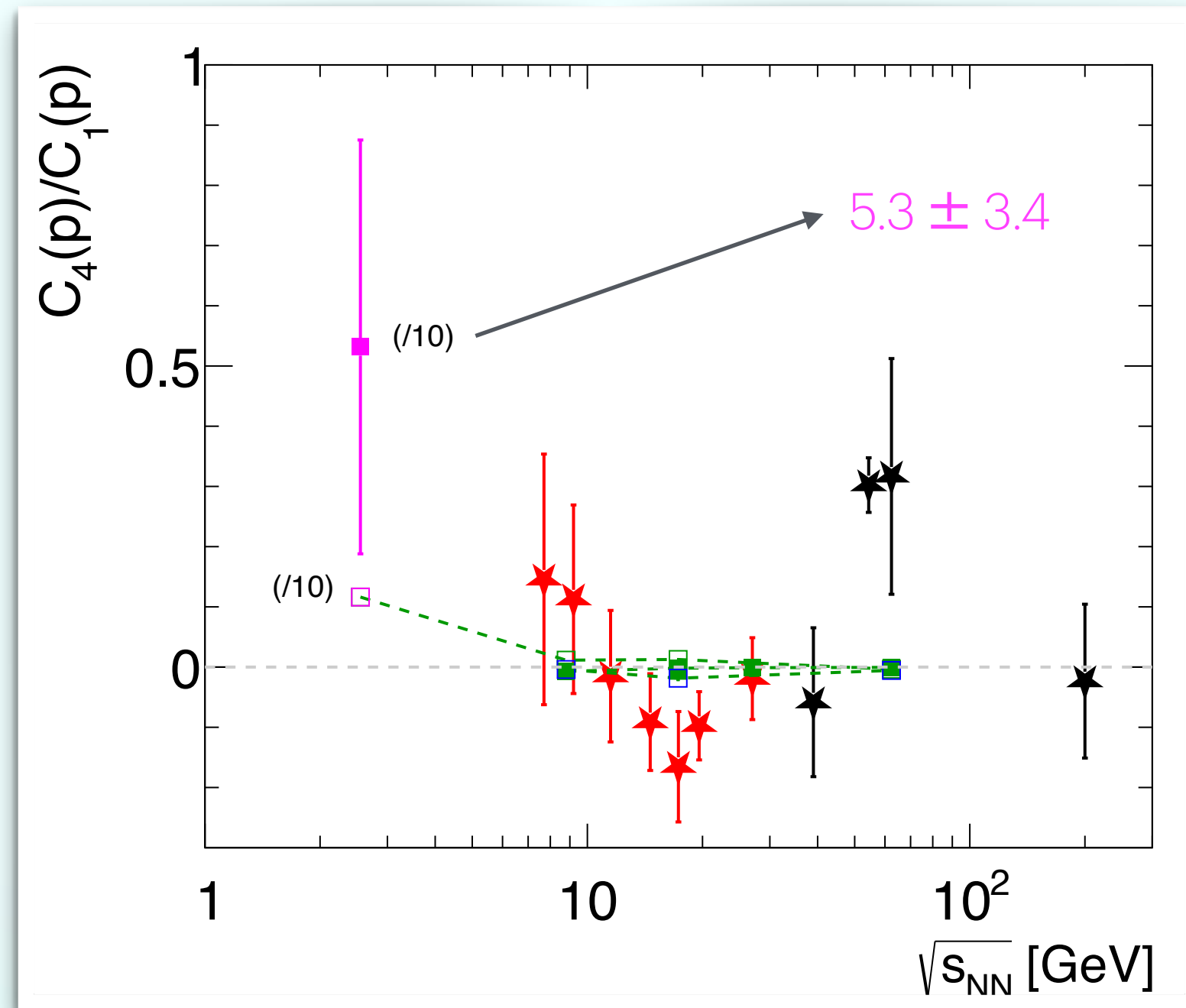
STAR FXT Data: $-0.5 < y < 0$, $0.4 < p_t < 2$ GeV/c

Both HADES and STAR FXT show sharp decrease in C_3/C_1 and **sign change**

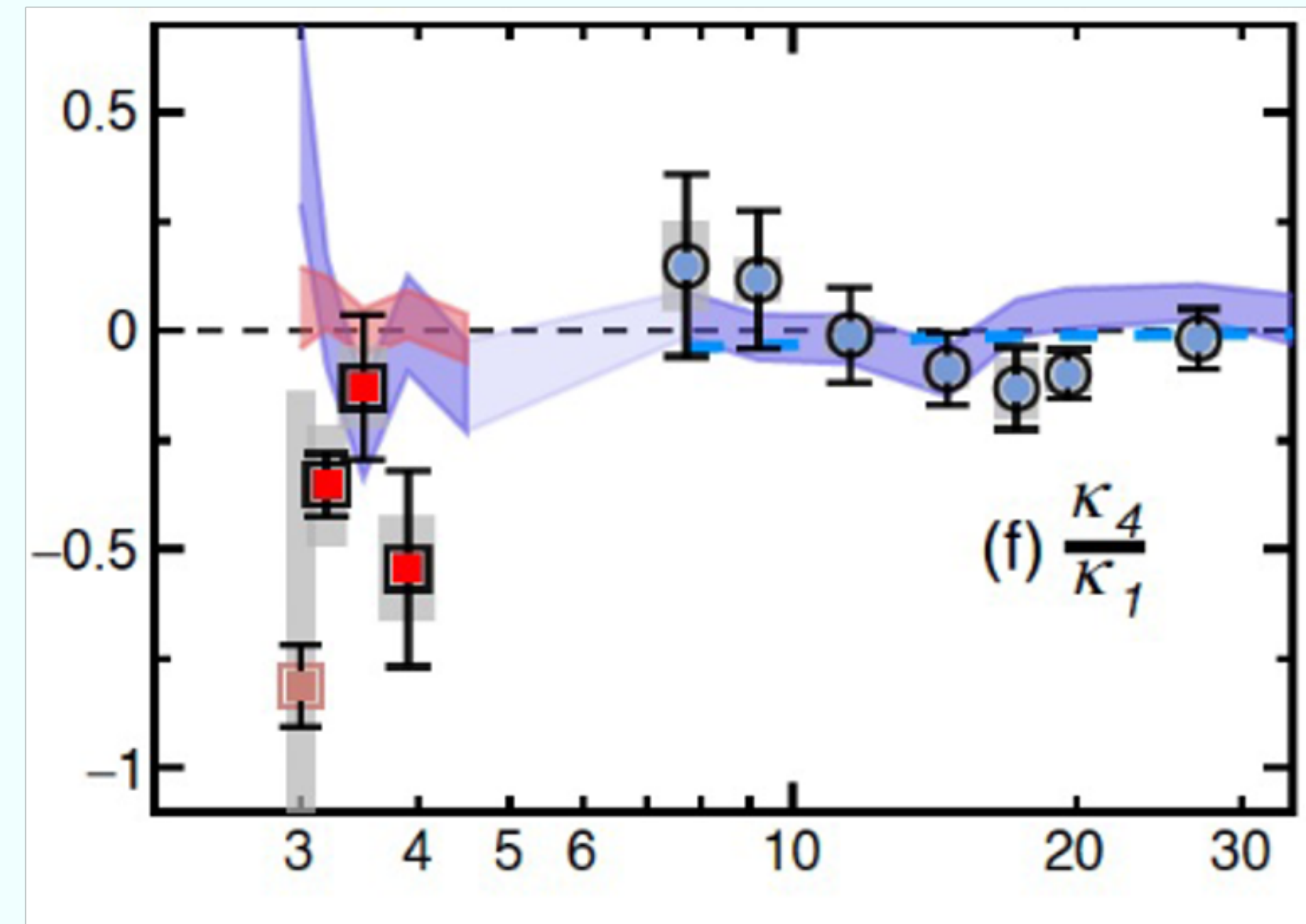
For a quantitative comparison

Differences in acceptance should be accounted for
Corresponding baselines need to be calculated

HADES vs. STAR FXT data, C_4/C_1



HADES: $-0.4 < y < 0.4$, $0.4 < p_t < 1.6$ GeV/c



STAR FXT Data: $-0.5 < y < 0$, $0.4 < p_t < 2$ GeV/c

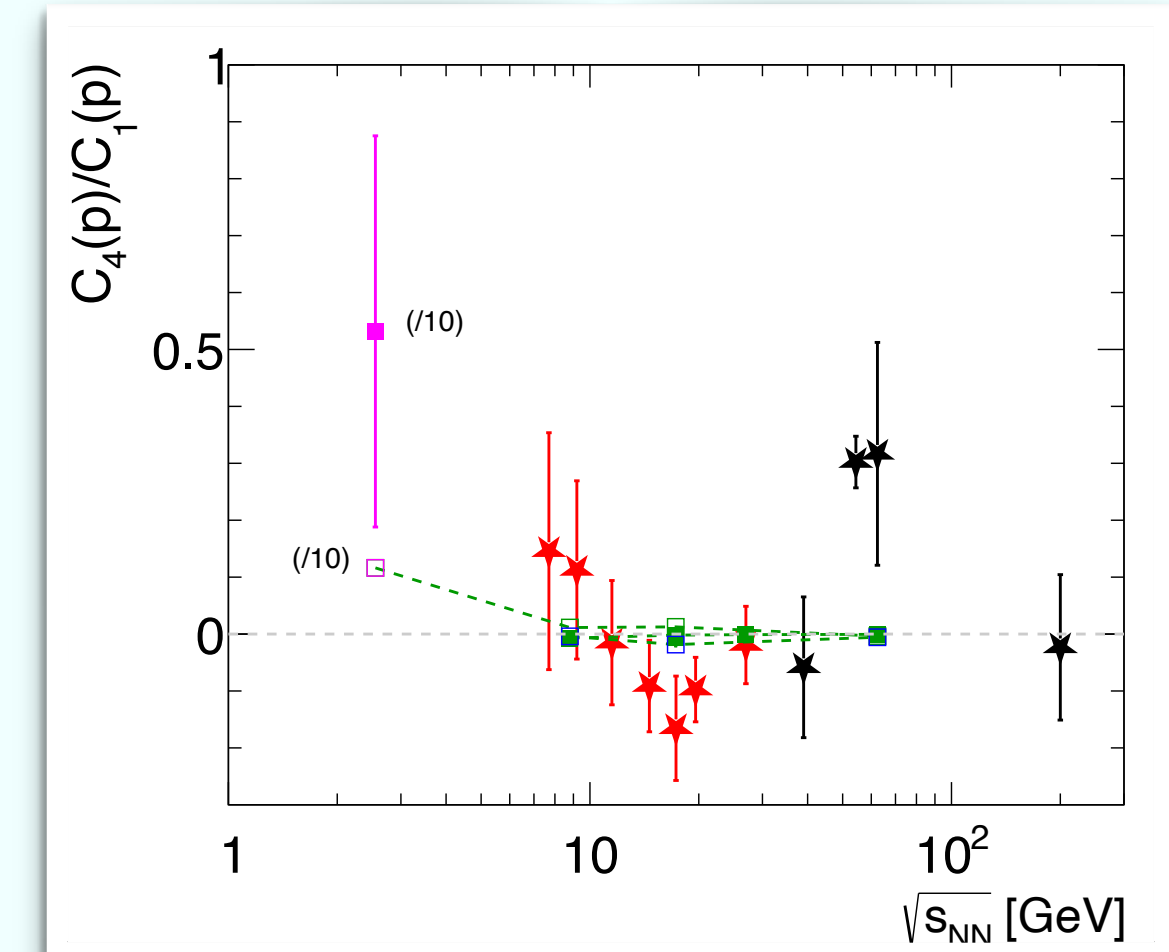
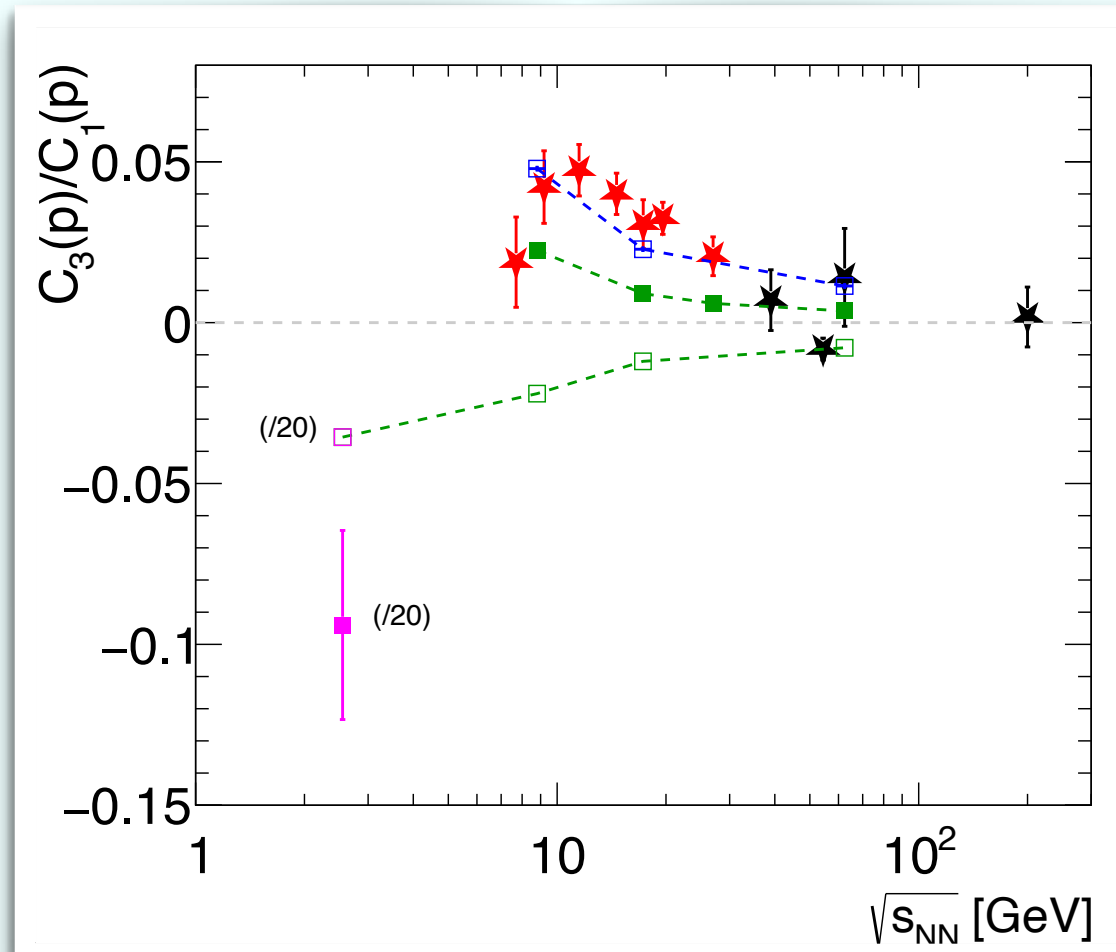
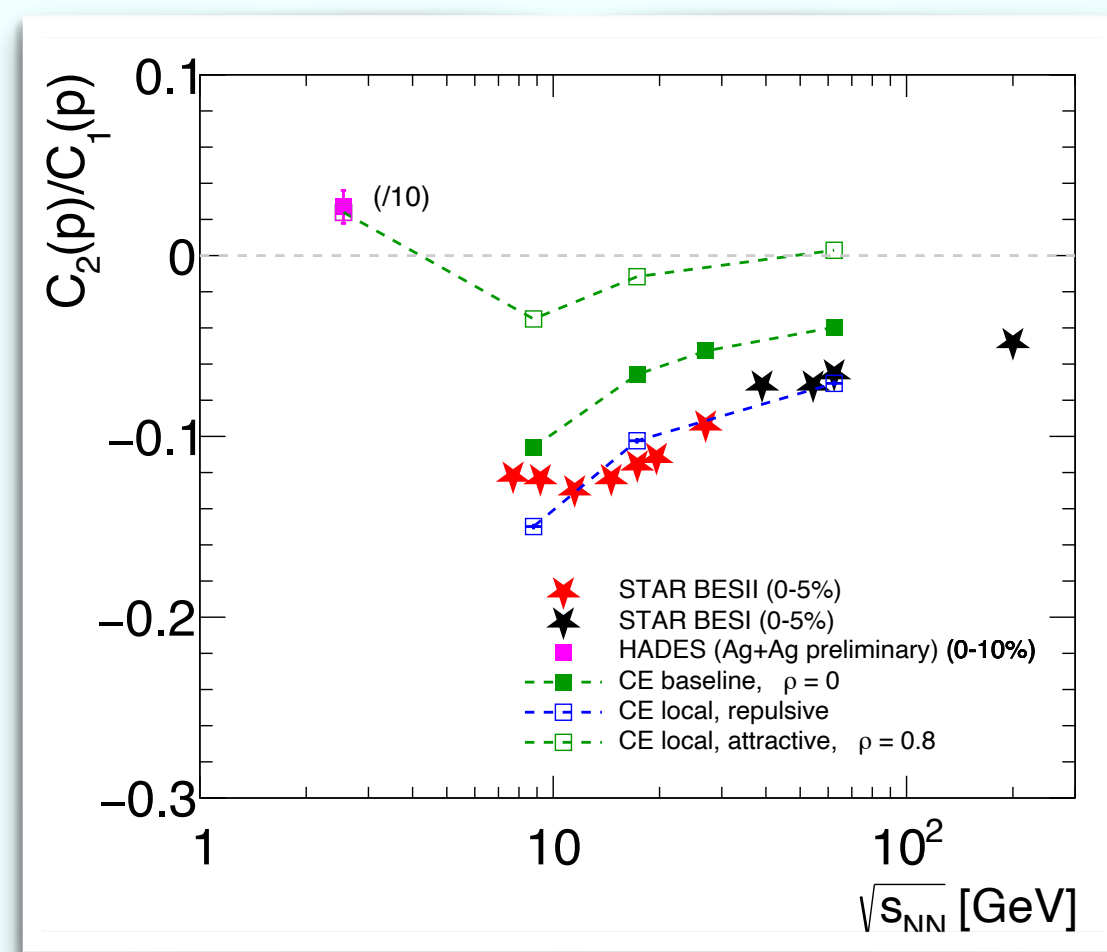
Are differences in C_4/C_1 significant?

For a quantitative comparison

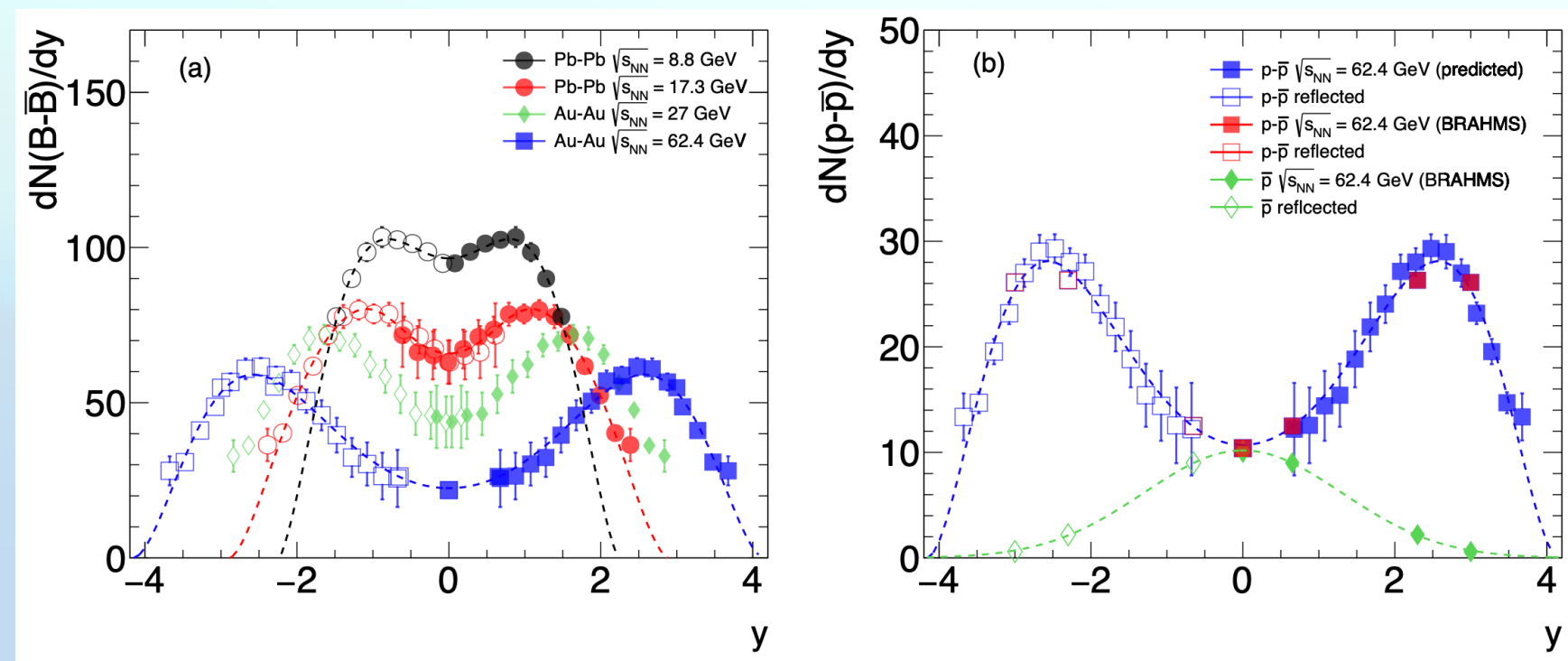
Differences in acceptance should be accounted for
Corresponding baselines need to be calculated

Zachary Sweger, Shinichi Esumi, QM 25
Marvin Nabroth, QM 25

What do we see



THE INTERPLAY OF REPULSIVE AND ATTRACTIVE FORCES BETWEEN PROTONS EXPLAINS THE SYSTEMATIC TRENDS OBSERVED IN THE STAR BESII AND HADES DATA



**artifacts of baryon stopping
or
messengers of first-order phase transition ?**

