

Статус модели PHSD для области энергий NICA

В.Воронюк

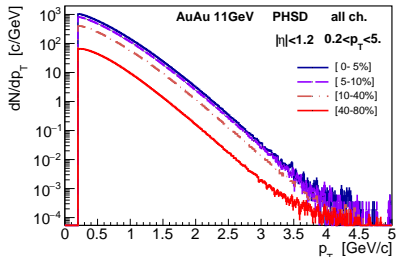
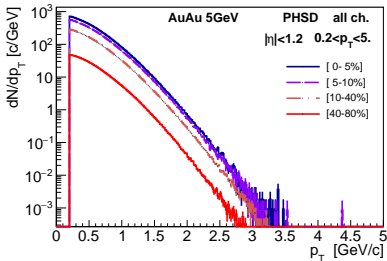
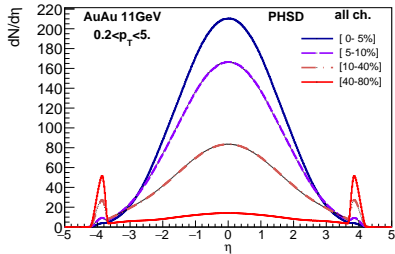
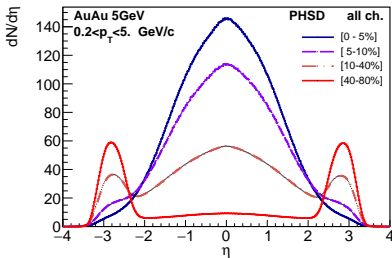
08 июня 2018

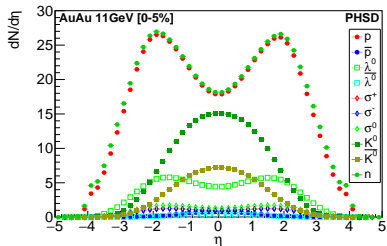
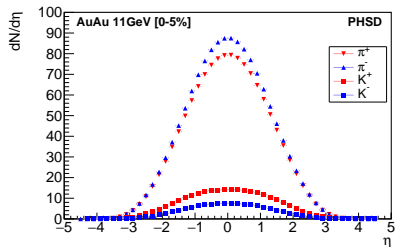
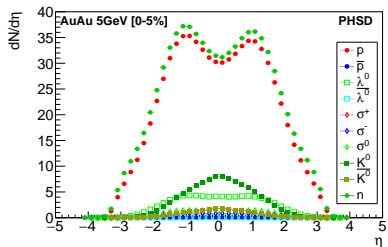
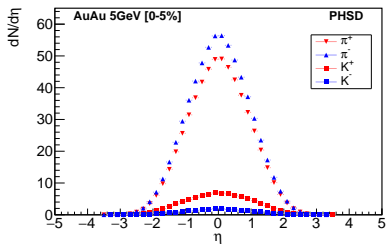


Cuts

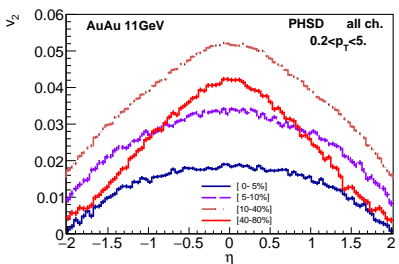
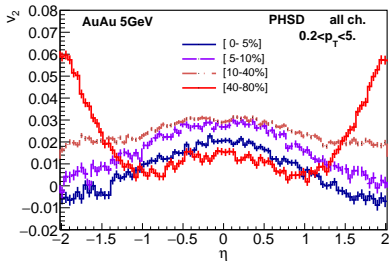
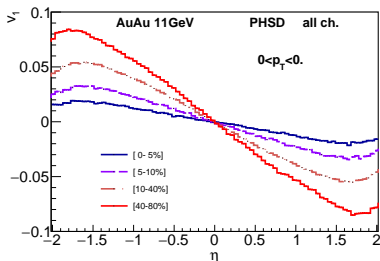
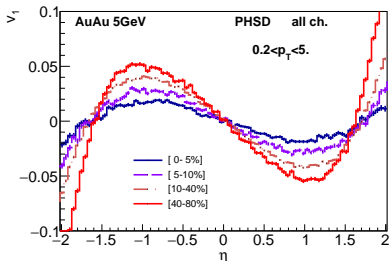
- ▶ $|\eta| < 1.2$
- ▶ $0.2 \text{ GeV}/c < p_T < 5 \text{ GeV}/c$

Глобальные наблюдаемые

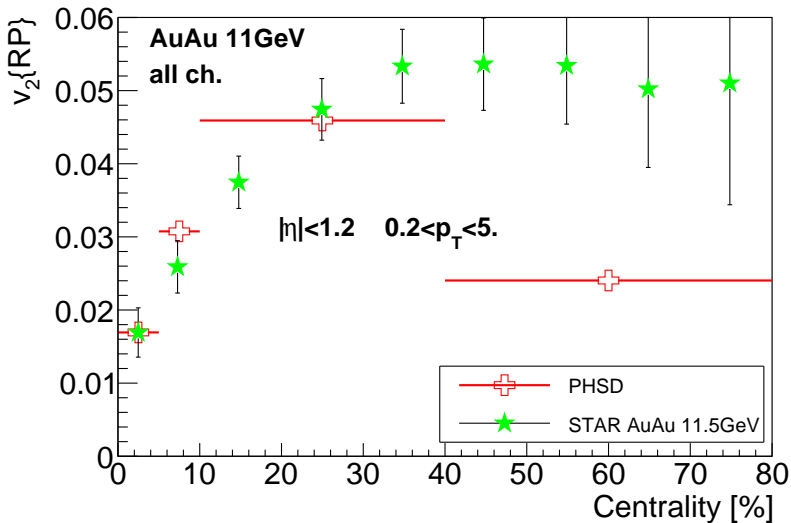




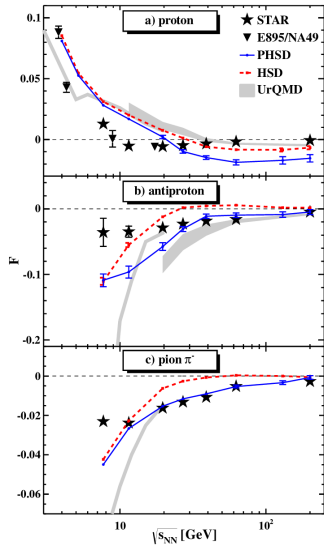
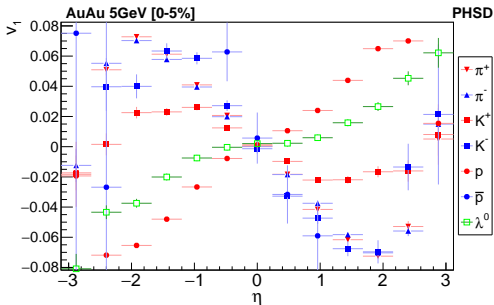
Потоки



v2: PHSD vs STAR

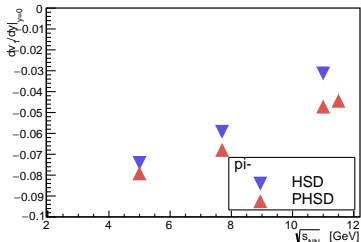
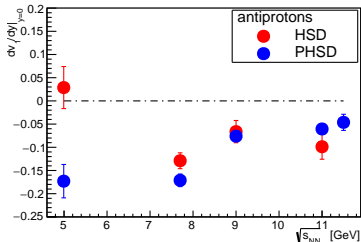
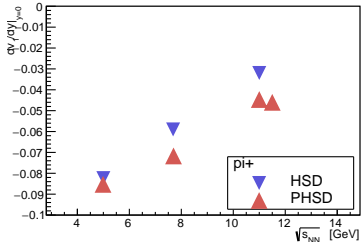
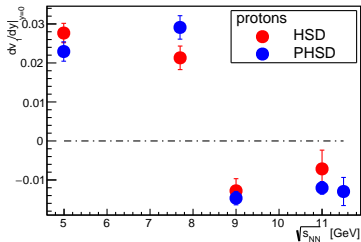


v1: Slope



v1: Slope

AuAu [10-40%]



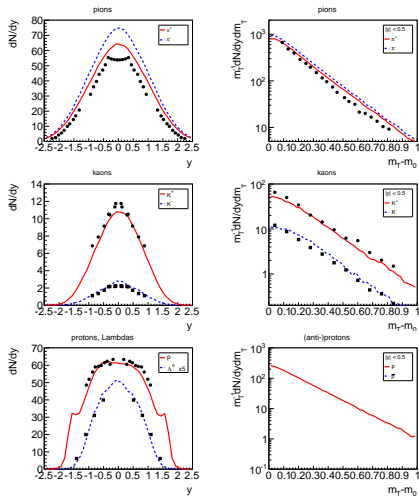
Заключение

- ✦ Модель хорошо описывает потоки и демонстрирует пересечение оси для наклона прямого потока.
- ✦ Периферические столкновения требуют дополнительного анализа.

Спасибо за внимание.

validation

Au+Au @ E = 10.7 AGeV
 AGS data: 5% most central, arXiv: ###
 PHSD: 7200 events, $b = 0.5 - 3.0$ (0.5) fm, 2016-12-13
 NUM=100, TIMEF=100.0 fm/c



validation

Pb+Pb @ E = 158 AGeV
 NA49 data: 5% most central, arXiv: 0205002, 1009.1747
 PHSD: 2160 events, b = 0.5 - 3.0 (0.5) fm, 2016-12-13
 NUM=30, TIMEF=50.0 fm/c

