

Talking Points

Experimental priorities

1. Intermediate Density ($1.5 \rho_0 - 3\rho_0$) - Heavy Ion Collision

Symmetric matter constraints- urgently need updates of DLL constraints using new & existing data from BES and Hades data.

2. Improvement of symmetry energy constraints around 1.5 to $3\rho_0$

a. ASYEOSII collaboration n/H yield ratios SE measurements → scheduled in March 2025

b. SpiRIT II (SpiRIT I is $108\text{Sn}+112\text{Sn}$ & $132\text{Sn}+124\text{Sn}$ at 270 MeV)

a. $124\text{Xe}+112\text{Sn}$ at 370 MeV (finished in June)

b. $136\text{Xe}+124\text{Sn}$ at 370 MeV (scheduled in October, 2024)

c. Should have new results in ~18 month

3. Weakest Links: transport model simulations

Transport Model Evaluation Projects (TMEP) priorities → mitigate the (mis)

Meeting of Transport theorists from Asia, Europe and US to understand differences in different transport models

Under controlled conditions (e.g. collisions in a box), most "good" models agree to within 10%. However in open systems such as realistic collisions of nuclei, the discrepancies persist.

8. How to prioritize and recruit people-power to attack the model problems --

Agnieszka