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## Refinements of the transport models and the constraints on symmetry energy

*Thursday, 21 September 2023 16:50 (20 minutes)*

In my talk, I will present the efforts on the refinement of the transport models after the TMEP projection. The improvements include the refined nonlinear term in the nucleonic mean field, momentum-dependent interactions, and  $NN \rightarrow N\Delta$  cross sections. Based on the updated models, the influence of symmetry energy and effective mass splitting on the neutron to proton yield ratios, triton to Helium-3 ratios are discussed. Further, the nucleonic flow and pion ratios are also discussed for learning the symmetry energy at suprasaturation density.

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