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WG1: Studies of new observables, both from nuclear structure and nuclear dynamics, to obtain tighter constraints on the EOS

Experience

- **Heavy-ion collisions simulations**
  (especially EPOS4, working @ $\sqrt{s_{NN}} > 20$ GeV/A)
- **Critical point search & bulk observables**
  (conserved-charge cumulants proxies, centrality estimation, pT & flow spectra)
- **EoS – Expansion methods from lQCD**
  (Taylor expansion, new T-expansion scheme)
- **MUSES**
  (cyberinfrastructure to compute EoSs from different models, centralizing multiple approaches, merging of different EoSs…)

Ideas I'd like to be discussed

(important for us)

- **Speed of sound measurements from HICs**
- **Measurement of couplings for mean-field models from femtoscopy in HICs**
- **Is there a way to infer neutron skin from high/intermediate-energy HICs?**
  (LHC / RHIC / FAIR)