

**Discussion Session: Where is the Onset of Deconfinement?**  
2022 Workshop on Critical Point and Onset of Deconfinement



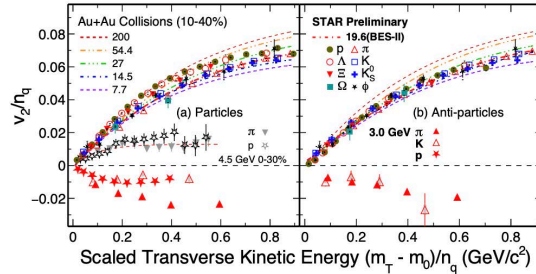
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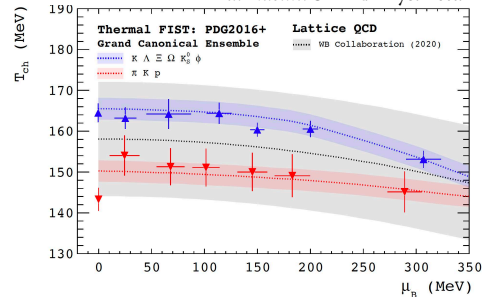
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# Where is the Onset of Deconfinement?

- What we know:
  - QGP Signatures observed at low  $\mu_B$  (high  $\sqrt{s_{NN}}$ )
    - Partonic Collectivity, Enhanced Strangeness Production, Jet Quenching, etc.
  - Intuitively, at higher  $\mu_B$  values (low  $\sqrt{s_{NN}}$ ), we expect the absence of said signatures
    - Exhibit 1: NCQ Scaling at STAR
    - Exhibit 2: Flavor Hierarchy at freeze-out?
- What we would like to know:
  - Precise value of  $\sqrt{s_{NN}}$  at the onset of deconfinement
  - What about smaller systems?
  - Further Considerations (next contributions)
    - Additional onsets?
    - Acceptance as key experimental challenges



*Md. Nasim. STAR: Phys. Lett. B 827 (2022) 137003*



*FAF, Olinger and Bellwied. Phys. Lett. B 814 (2021) 136098*