Requirements, status, and plans for track reconstruction at the sPHENIX experiment

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April 29, 2020
Summary and Thoughts for Discussion

- sPHENIX is a jet and heavy flavor experiment being constructed at the Relativistic Heavy Ion Collider for data taking in 2023
- Challenging tracking environment due to large occupancy in high luminosity heavy ion collisions
- Exploring Acts toolkit for reducing track reconstruction time
- Thoughts for discussion
  - Other collaborations exploring Acts - Belle2, CEPC, EIC...
  - Acts developer/user base growing
  - Detector geometries that would be useful?
    - sPHENIX - Time projection chamber
    - Belle2 - Drift chamber/TPC
    - ...
  - Other tools that might be useful?