

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

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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?