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Why I am excited to work on SpinQuest in 10 minutes

Tuesday, July 21, 2020 1:45 PM (15 minutes)

The SpinQuest (Fermilab E1039) experiment will measure an azimuthal asymmetry in the Drell-Yan production of $\mu^+ \mu^-$ pairs from 120 GeV/c proton interactions with polarized nucleons to extract the Sivers function for \bar{u} and \bar{d} . A nonzero asymmetry would be “smoking gun” evidence for orbital angular momentum of the light sea-quarks: predicted to be a major contributor to the proton’s spin. In our 10 minutes together, I will give an overview and share plans for the near future of this exciting experiment from the perspective of a young researcher.

Summary

Fermilab report number

FERMILAB-SLIDES-20-051-E

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