



Contribution ID: **2529** Contribution code: **MOPA106**

Type: **Poster Presentation**

Delivery of Low Momentum Muons for Muon EDM Studies at Fermilab

Monday, 8 May 2023 16:30 (2 hours)

Within the Standard Model the electric dipole moment (EDM) of the muon is heavily suppressed. Observation of a non-zero EDM value would be an additional source of CP violation that would aid in answering the many open questions about the universe and the Standard Model. As part of an investigation into the feasibility of measuring the muon EDM at the g-2 storage ring at Fermilab, a study on the delivery of low momentum muons to the g-2 ring using the existing accelerator infrastructure is presented.

Funding Agency

This work has been authored by Fermi Research Alliance, LLC under Contract No. DE-AC02-07CH11359 with the U.S. Department of Energy, Office of Science, Office of High Energy Physics.

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: BOI, Steven (Fermi National Accelerator Laboratory)

Co-authors: STRATAKIS, Diktys (Fermi National Accelerator Laboratory); MORGAN, James (Fermi National Accelerator Laboratory)

Presenter: IZZO, Christopher (Fermi National Accelerator Laboratory)

Session Classification: Monday Poster Session

Track Classification: MC1: Colliders and other Particle Physics Accelerators: MC1.T12: Beam Injection/Extraction and Transport