

Fermilab Mu2e

Fermilab Mu2e *FREE* *fermilab mu2e* mu2e docdb fnal gov Mu2e Collaboration Document Database Access Certificate Version of mu2e DocDB If you are accessing this version for the first time you must first apply for access For assistance contact Fermilab Service Desk Fact Sheets and Brochures News Mu2e Experiment Quantum science and technology Illinois Accelerator Research Center Economic Impact Particle Physics Benefits to Society Acerca del Fermilab español Cosas que hacer en el Fermilab español Fomentar una fuerza de trabajo de CTIM español Experimentos de neutrinos español Fermilab news Search The Mu2e Experiment At Fermilab The Mu2e Experiment At Fermilab D Glenzinski Fermilab P O Box 500 Batavia IL 60510 Abstract The physics motivations target sensitivity and status of the Mu2e experiment at Fermilab are described Fermi National Accelerator Laboratory January 2019 Mu2e The Mu2e collaboration will capture muons produced by Fermilab's particle accelerators If the Mu2e detector records electrons escaping with the precise energy of 105 MeV scientists will have discovered the elusive transformation of a muon converting directly into an electron — and signs of new physics Mu2e Experiment Beam Delivery and Out of Time Extinction in the Mu2e Eric Prebys Fermilab UC Davis 3August 2017 Beam Delivery and Out of Time Extinction in the Mu2e Experiment at Fermilab Fermilab Mu2e Fermilab News MUSE and NEWS are on the RISE August 2017 Fermilab News Mu2e s Magnet Boot Camp May 2017 Fermilab News Mu2e Celebrates completion of experimental hall October 2016 Fermilab News Cosmic rays are a pain August 2016 Chicago Tonight Mu2e and the Windy City Physics Slam July 2016 CD 3 awarded July 14 2016 Mu2e reaches CD 3 Fermilab Today Experiment Profiles Archive Mu2e Previous experiments have looked at about ten trillion muons Fermilab s Mu2e experiment will observe 10 000 times more data HOW DOES THIS FIT INTO FERMILAB'S STRATEGIC PLAN It would require minor changes to the Fermilab accelerator complex and position the laboratory as a leader in ultra rare flavor physics on the Intensity Frontier The Mu2e Experiment at Fermilab Iss fnal gov • Fermilab complex well suited to delivering the necessary beam for a phase I experiment • Mu2e experiment with a single event sensitivity of 2×10^{-17} being enthusiastically pursued ?Improves current world's best by 104 ?Probes mass scales well beyond LHC's capabilities ?Two year run starting as early as 2016 ?Clear upgrade path Fermilab Mu2e Research Goals Previous experiments have looked at about ten trillion muons Fermilab s Mu2e experiment will observe 10 000 times more data looking for a change from a muon to an electron Discovering this change would point us toward a single theory explaining the genetics of the particles born in the big bang Expression of Interest for the Evolution of Mu2e – Mu2e II 17 July 2018 Mu2e II Expression of Interest Fermilab PAC 22 Studies completed or in progress Studies of proton beam energy • Muon yield at 0.8 GeV is same as at 8 GeV while coil damage is 30 smaller • Strongly prefer an energy below pbarproduction threshold Tp It 4 GeV Challenges and Design of the Transport Solenoid Fermilab In this paper the conceptual design of the Transport Solenoid is presented and discussed focusing on these coupling issues and the proposed solutions Index Terms— Aluminum stabilized cable Mu2e Solenoid coupling Superconducting magnet Transport Solenoid I INTRODUCTION HE Mu2e experiment 1 at Fermilab aims at exploring

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