

XVth Quark Confinement and the Hadron Spectrum



Contribution ID: 157

Type: Poster

Constraints On the Dark Sector from Electroweak Precision Observables

Wednesday 21 August 2024 18:30 (1h 30m)

We revisit the Standard Model fit to electroweak precision observables using the latest data and the Particle Data Group value of the mass of the W boson. This analysis is repeated for the value reported by CDF. The constraints on the parameter space for dark photons arising from these electroweak precision observables are then evaluated for both values of the W boson mass. We also extend previous work by placing the first electroweak precision observable constraints on the coupling of dark photons to the fermionic dark matter sector.

Author: LOIZOS, Bill

Co-authors: THOMAS, Anthony; Prof. WILLIAMS, Anthony (University of Adelaide); WHITE, Martin John (University of Adelaide (AU)); WANG, Xuangong

Presenter: LOIZOS, Bill

Session Classification: Posters

Track Classification: G: Strongly-Coupled Theories and Dark Matter