Contribution ID: 10 Type: not specified

## Fractionally Charged Particles at the Energy Frontier

Saturday 16 November 2024 13:40 (20 minutes)

The observed Standard Model is consistent with the existence of vector-like species with electric charge a multiple of e/6. The discovery of a fractionally charged particle would provide nonperturbative information about Standard Model physics, and furthermore rule out some or all of the minimal theories of unification. We discuss the phenomenology of such particles and focus particularly on current LHC constraints, for which we reinterpret various searches to bound a variety of fractionally charged representations. We emphasize that in some circumstances the collider bounds are surprisingly low or nonexistent, which highlights the discovery potential for these species which have distinctive signatures and important implications.

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Session Classification: 1:20-2:00