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Colored Particle Production at High-Energy Muon Colliders

Monday 19 May 2025 17:45 (15 minutes)

A high-energy muon collider provides a wide variety of mechanisms for the production of new heavy particles. In this talk, I will first show how the PDFs for quarks, gluons and photons can be applied on muon collider, and then present production cross sections for a large variety of colored particles, including color triplet fermions and scalars and color sextet diquarks, leptoquarks, leptogluons and color octet scalars, fermions and vectors. Compared to LHC, we find muon collider has better sensitivity for many of the colored BSM particles.

Mini Symposia (Invited Talks Only)

Plenary (Invited talks only)

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