

P5 Town Hall at SLAC



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Type: **Early Career Scientist**

Next Generation Beams: Exploring the potential of muon acceleration (remote)

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For decades of energy frontier exploration, we've utilized the two charged particles that are easiest to produce and manipulate, the proton and the electron. As we contemplate the future of high energy colliders, the use of these particles fundamentally limits our potential energy reach: the low electron mass due to synchrotron radiation and the proton due to its composite nature. Luckily, the Standard Model provides an alternative: the muon. In this brief talk, I'll discuss why now is the time to fully explore taking advantage of this massive but fundamental particle, and invest in an R&D program aimed at a future muon collider.

Primary author: HOLMES, Tova (University of Tennessee, Knoxville)

Presenter: HOLMES, Tova (University of Tennessee, Knoxville)

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