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Making Cosmology Real: The Dark Matter Challenge

There has never been a more exciting time in cosmology. But our current paradigm is built upon three pillars that involved unresolved new physics: dark matter, dark energy and inflation. To make cosmology real—and not just an exciting story—we have to resolve the new physics. The dark matter challenge seems especially ripe to solve, perhaps with a triple verification of the particle dark matter hypothesis: particle production at the LHC, direct detection of dark matter particles in the halo and detection of dark matter annihilation products.

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