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Dark Matter: What Do We Know From Cosmology?

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The dark matter problem exists at the junction of three fields, observational cosmology, high-energy theory, and experimental physics. The first two motivate us to seek a new particle, in addition to those in the Standard Model; the last is our best hope for pinning down its true nature. In this talk I will review what we know about dark matter from astrophysical observations of the cosmic microwave background, clusters of galaxies, individual giant or dwarf galaxies, and other systems, and what we may hope to learn in the future. I will also mention briefly some of the classes of dark matter candidates, and experimental tests specific to each of them.

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