

# Cosmology, Particles, and the Unity of Science

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## Abstract

During the last three decades, there has been a growing realization among physicists and cosmologists that the relation between particle physics and cosmology may constitute yet another successful example of the unity of science. However, there are important conceptual problems in the unification of the two disciplines, e.g. in connection with the cosmological constant and the conjecture of inflation. The present article will outline some of these problems, and argue that the victory for the unity of science in the context of cosmology and particle physics is still far from obvious.

**Keywords:** Cosmology; Particle Physics; Quantum Field Theory; Unity of Science

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