

APR21-2021-020006

Abstract for an Invited Paper
for the APR21 Meeting of
the American Physical Society

Inflation and the Swampland

ROBERT BRANDENBERGER, McGill Univ

The inflationary scenario has become the paradigm of early universe cosmology. Recent work indicates, however, that inflation is in serious tension with fundamental physics. I will discuss the Swampland Criteria and the Trans-Planckian Censorship Conjecture and demonstrate that they severely constrain the inflationary scenario, while favouring alternative models of the early universe.