APR05-2005-020061

Abstract for an Invited Paper for the APR05 Meeting of the American Physical Society

## Understanding the Feebleness of Gravity FRANK WILCZEK, MIT

Regarded as a force between fundamental particles, gravity is ridiculously feeble compare to the other forces. On the face of it, this fact poses a major challenge to the program of achieving a unified theory. I'll show how modern understanding of asymptotic freedom and QCD can go a long way toward meeting this challenge. Then I'll discuss the implications of this circle of ideas, and identify some remaining problems.