ADVANCED DYNAMICS — PHY–4241/5227
HOMEWORK 8

(February 23, 2004)
Due Friday, February 27, 2004 (in the lecture)

PROBLEM 19

D mesons have a (mean) lifetime of 1051×10^{-15} s. Assume such a meson is created in a particle collission at Fermilab and moves at $0.995\,c$ with respect to the Lab frame. Compute the (mean) distance travelled by such a D meson.