

Massachusetts Institute of Technology

Department of Physics

Course: 8.701 – Introduction to Nuclear and Particle Physics

Term: Fall 2020

Instructor: Markus Klute

TA : Tianyu Justin Yang

Discussion Problems

from recitation on **September 22nd, 2020**

Problem 1: Decay rate

Calculate the lifetime of A, the particle in our toy experiment.

Problem 2: Scattering cross section

Calculate the differential cross section for the process $A + A \rightarrow B + B$

MIT OpenCourseWare
<https://ocw.mit.edu>

8.701 Introduction to Nuclear and Particle Physics
Fall 2020

For information about citing these materials or our Terms of Use, visit: <https://ocw.mit.edu/terms>.