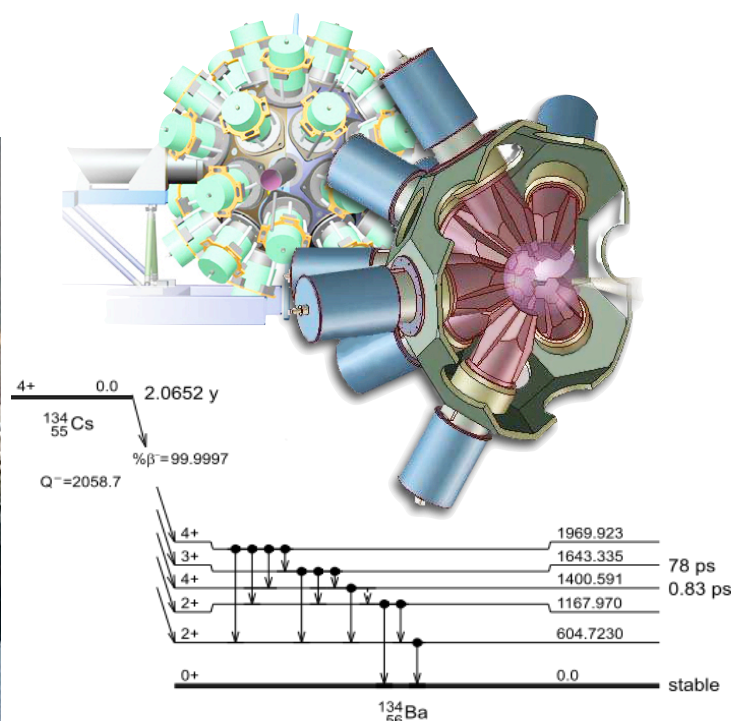


# Physics 150: Nuclear Physics & Technology

MWF 3-3:50 in HSSB 1236. 4 units.  
Prof. Ben Monreal



How do protons and neutrons bind together into nuclei? What can we learn from those nuclei, and how do we control them and put them to use? In Physics 150, we will study basic nuclear physics, focusing on binding energies and decays, shell structure and spectroscopy, and some fundamental symmetries. With the basics in hand, we'll tackle modern nuclear technology. The main focus will be the design, operation, and fuel cycles of nuclear power plants; we'll also discuss nuclear fusion, weapons, nuclear waste, and medical uses of radioactivity.

Prerequisites: Physics 5 or 25, OR Chem 113B, OR permission of instructor. (Non-physics-majors welcome; please do ask your out-of-department prereqs.)