Names: _____

_____

Group Activity 8 **Due:** In class, September 16th

1. Write a schematic form of the decay rate as described by the Fermi theory of β decay. Which part is primarily responsible for the energy spectrum of βs?

2. Why do you suppose β decay half-lives reach a plateau as the driplines are approached?

3. For which region of the nuclear chart do we expect electron-capture to be appreciable as compared to β^+ decay?