* **Discuss the main radioactive decay modes**
* **•What decay mode would cause the highest ‘local’ dose, and what would cause the highest ‘regional/peripheral’ dose (for the same amount of kinetic energy emitted)?**
* **•What is the charge of an atom after internal conversion?**
* **•In PET, typically 200 MBqof a positron emitter is injected into the patient. The half life is 110 min. Assume that the positron energy is 600 keVand that 20 % of all disintegrations result in energy**