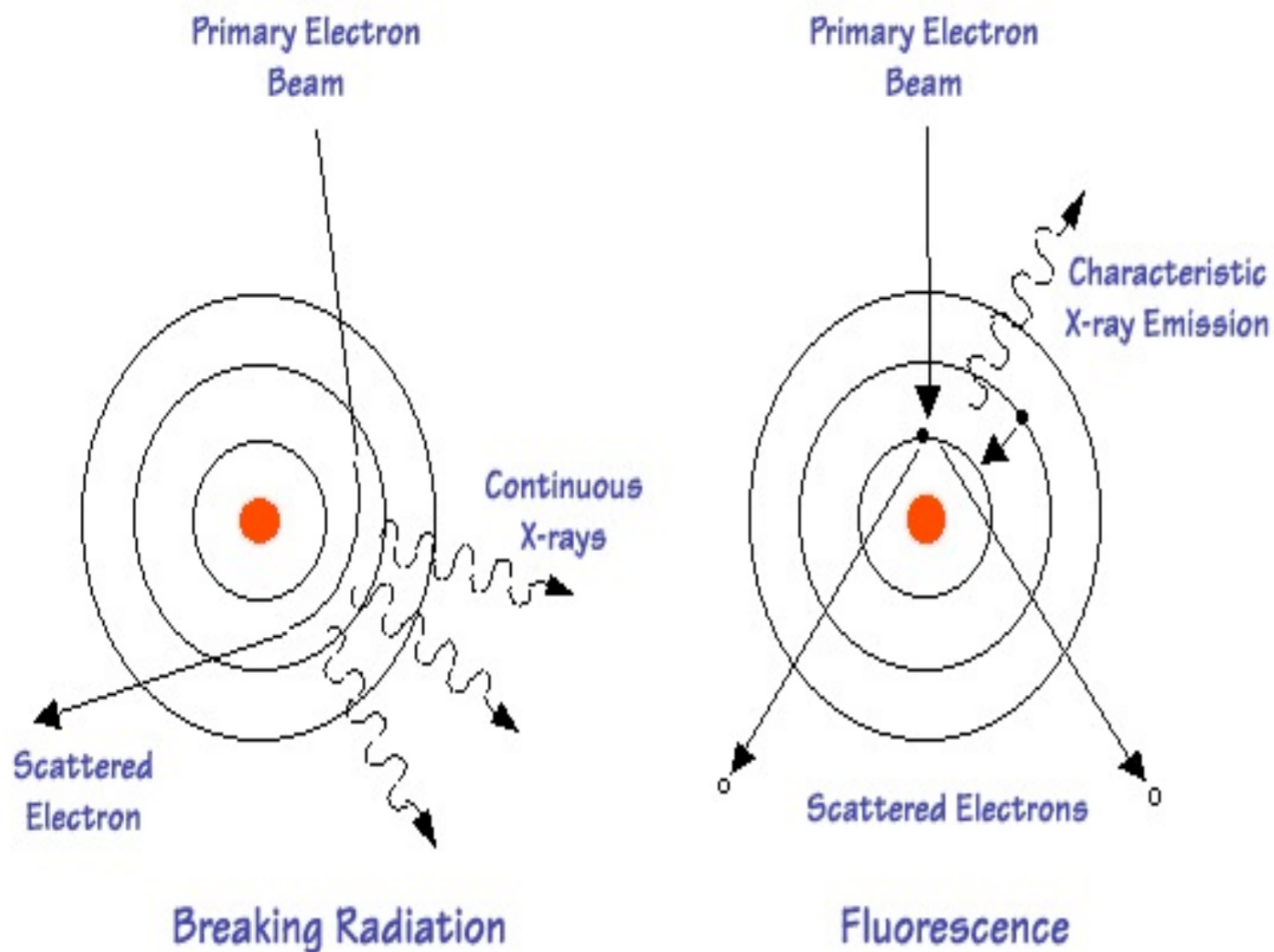


X ray production:



Ask Mish



- Principle: excited electrons :
- 1. losing energy (E)
- 2. changing orbitals from high to low E
- can obtain this by hitting a metal w/ electrons:
- 1.-e deceleration 90% = Bremsstrahlung or breaking radiation
- 2.K shell expulsion: hit -e(K) is replaced
- Bremsstrahlung =German for breaking radiation :
-e hitting atoms of a metal once they come closer to nucleus they are decelerated by the positive field around it. Electrons change direction = breaking radiation and lose E in the form of X rays.
- K shell expulsion: free-e are hitting -e from K shell when hitting the metal's atoms; the K -e leaves the atom and is replaced by an -e from higher energetic orbitals L,M which lose E by moving to K in the form of X rays