***Que. : Why do we see a non-shifted peak (λ) at all angles?***

**Answer:**

The non-shifted peak is due to photon collisions with **tightly bound inner electrons in the target material**. Photons that collide with the inner electrons of the target atoms in fact collide with the entire atom. In this extreme case, the rest mass (m0) in λc=h/m0c must be changed to the rest mass of the atom. This type of shift is four orders of magnitude smaller than the shift caused by collisions with electrons and is so small that it can be neglected.