

When high energy Y ray casees into the scintillators. Fallowing interactions might happen

O) Y glets detected without other interactions

I) Y scatters through Compton Scattering and then gets detected II) Y scatters through Compton Scattering and sescapes from the defector but its product (the " which interacted let's Call Ex(F)=200 ker) with through Compton Scattering) Ex III) produces characteristic X-ray from the scintilator Crystal (an electrons knoked out from the inner shell and other electron from outer shell Fills the vicinity and their or X ray gets produced IV) pair production (might result in a peak on o.s. Mer or. it might lead to other energetic electrons through cascade interactions) > cole "O" leads to main photopeak > I & leads to a continium starting from about a c. 200 Mer (E*) upper (O. I interaction) up to main photo peak (O- a interaction) he but since Scattering Goss section is higher for word (klein_Nishina formula), so probability of Azze interaction is enhanced (we can see prou

