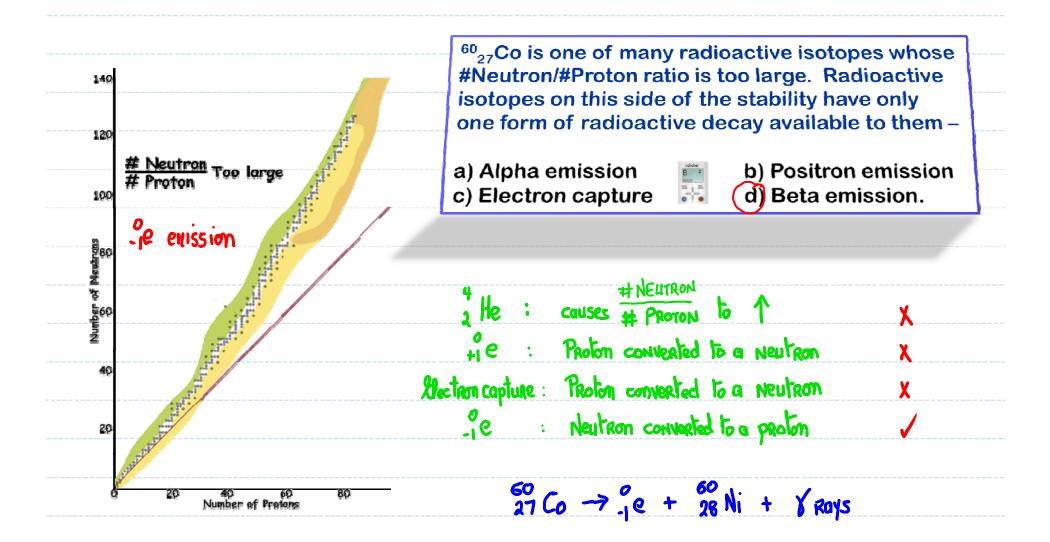
Announcements – Lecture XXI – Tuesday, Dec 4th 1. Exam III ... Thursday, December 6th, ISB 135, 12:45-2:15pm 3 or 4 questions will be taken from Lab Owls 3, 4 and 5. 2. Final Exam ... Wednesday, December 12th, ISB 135, 8:00-10:00am Final Review ... Sunday, December 9th, ISB 135, 1:00-3:00pm

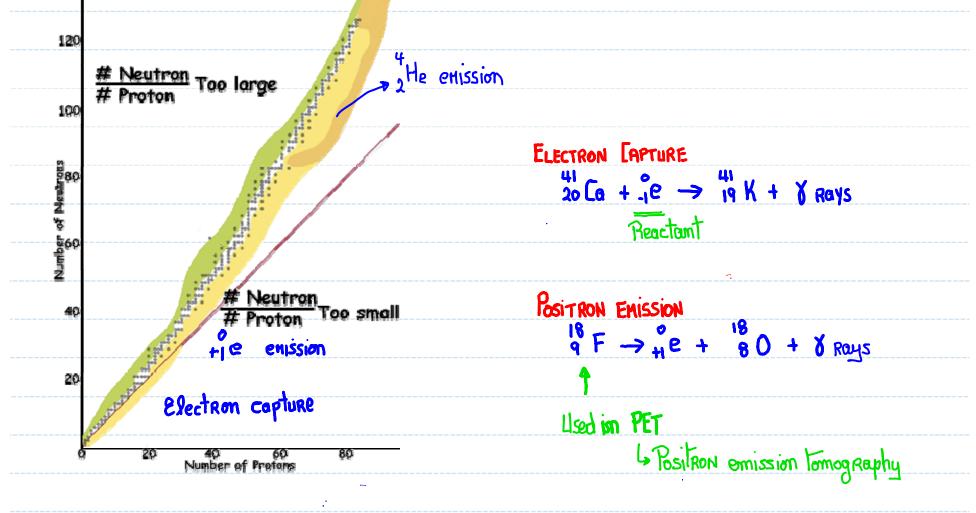
9.3 What Happens When a Nucleus Emits Radioactivity



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9.3 What Happens When a Nucleus Emits Radioactivity Positron Emission – Electron Capture – Alpha Emission





What Happens When a Nucleus Emits Radioactivity 9.3 **D** – Positron Emission $(^{0}_{+1}e)$ – Positron emission tomography Short lived "C : ~ 20 minutes ¹³N: ~ 10 minutes 15 0 : ~ 2 minutes 18 9 F : ~ 110 minutes





4.5 Stoichiometry – Lab Owl – Review – Lab Owl 4

Calcium hydroxide is standardized by titration with 0.320 M solution of nitric acid. If 38.5 mL of base are required to neutralize 23.4 mL of acid, what is the molarity of the calcium hydroxide solution?

$M = \frac{\# mol}{V(L)}; \# mol = M \times V(L)$			the way (G(OH))			
			Ca (0H) ₂ :	M = ¹	<u>⊭mol Ga(OH)</u> 2 √(L)	
				M =	3.74 × 10-3	
$\#moP HNO_3 = 0.320 \times 0.0234 = 7.49 \times 10^{-3} moP$			0.0385			
				=	0.0972	
TURVICE 3 ALHO	3 1 Cq (OH)2 _	3.74×10 mol				

4.5 Stoichiometry – Lab Owl – Review – Lab Owl 4

