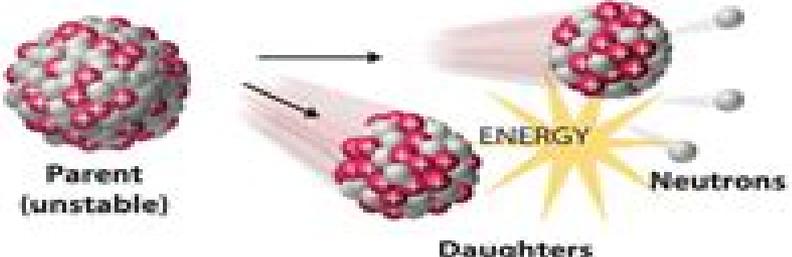


Decay Type	Radiation Emitted	Generic Equation	Model
Alpha decay	$\frac{4}{2}\alpha$	$\frac{A}{Z}X \longrightarrow \frac{A-4}{Z-2}X' + \frac{4}{2}\alpha$	 <p>Parent → Daughter + Alpha Particle</p>
Beta decay	$\frac{0}{-1}\beta$	$\frac{A}{Z}X \longrightarrow \frac{A}{Z+1}X' + \frac{0}{-1}\beta$	 <p>Parent → Daughter + Beta Particle</p>
Positron emission	$\frac{0}{+1}\beta$	$\frac{A}{Z}X \longrightarrow \frac{A}{Z-1}X' + \frac{0}{+1}\beta$	 <p>Parent → Daughter + Positron</p>
Electron capture	X rays	$\frac{A}{Z}X + \frac{0}{-1}e \longrightarrow \frac{A}{Z-1}X' + \text{X ray}$	 <p>Parent + Electron → Daughter + X ray</p>
Gamma emission	$\frac{0}{0}\gamma$	$\frac{A}{Z}X^* \xrightarrow{\text{Relaxation}} \frac{A}{Z}X' + \frac{0}{0}\gamma$	 <p>Parent (excited nuclear state) → Daughter + Gamma ray</p>
Spontaneous fission	Neutrons	$\frac{A+B+C}{Z+Y}X \longrightarrow \frac{A}{Z}X' + \frac{B}{Y}X'' + C\frac{1}{0}n$	 <p>Parent (unstable) → Daughters + ENERGY + Neutrons</p>

# Decay Schemes Of Radioactive Nuclei

**Lingjun Ying**



## **Decay Schemes Of Radioactive Nuclei:**

## Whispering the Secrets of Language: An Psychological Quest through **Decay Schemes Of Radioactive Nuclei**

In a digitally-driven earth where monitors reign supreme and instant communication drowns out the subtleties of language, the profound secrets and mental nuances hidden within phrases often go unheard. However, located within the pages of **Decay Schemes Of Radioactive Nuclei** a interesting literary prize sporting with organic feelings, lies an extraordinary quest waiting to be undertaken. Written by a talented wordsmith, that charming opus attracts visitors on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the very material of every word. Within the mental depths with this moving evaluation, we will embark upon a sincere exploration of the book is key styles, dissect their charming publishing design, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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