

## Radioactive Decay Law

When an individual nucleus transforms into another with the emission of radiation, the nucleus is said to **decay**. Radioactive decay occurs for all nuclei with  $Z > 82$ , and also for some unstable isotopes with  $Z < 83$ . The decay rate is proportional to the number of original (undecayed) nuclei  $N$  in a substance. The number of nuclei lost to decay,  $-dN$  in time interval  $dt$ , is written

$$-dN = \lambda N dt$$

where  $\lambda$  is called the **decay constant**. (The minus sign indicates the number of original nuclei decreases over time.) In other words, the more nuclei available to decay, the more that do decay (in time  $dt$ ). This equation can be rewritten as

$$\frac{dN}{N} = -\lambda dt. \quad (1)$$

Integrating both sides of the equation, and defining  $N_0$  to be the number of nuclei at  $t = 0$ , we obtain

$$\int_{N_0}^N \frac{dN}{N} = -\int_0^t \lambda dt'. \quad (2)$$

This gives us

$$\ln \frac{N}{N_0} = -\lambda t. \quad (3)$$

Taking the left and right sides of the equation as a power of  $e$ , we have the **radioactive decay law**. The total number  $N$  of radioactive nuclei remaining after time  $t$  is

$$N = N_0 e^{-\lambda t} \quad (4)$$

where  $\lambda$  is the decay constant for the particular nucleus.

The total number of nuclei drops very rapidly at first, and then more slowly (**Figure 2**).

# Radioactive Decay Law Answer Key

**Yijin Wang**



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