

Source: [KBPhysicsMasterIndex](#)

1 | Nuclear Physics

First of all, recall [KBhPHYS201CoulombsLaw](#). Given the force between two particles is $\frac{kQ^2}{R^2}$, we could hand-wavily calculate the *work* between two particles if we know how much they travel near/far from each other. Through this, we could show that nuclear forces (through nuclear distance, proton=>electron) are much larger than that of the chemical forces (atom/atom, electron=>electron).

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1.1 | Radioactivity

Radiation is the emission wave —