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4 Half-Life The time it takes for one-half of the atoms in a radioactive isotope to decay. Isotope An atom of an element with the same number of protons but with different numbers of neutrons in the nuclei.

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Newtonian physics was extended by Einstein to explain the effects of travelling near the speed of light; quantum physics extends it to account for the behaviour of atoms.

### physics - Wiktionary

2 I. Relativity A. Frames of Reference Physical systems are always observed from some point of view. That is, the displacement, velocity, and acceleration of a particle are measured relative to some selected origin and

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(6) 20. A charge Q located at a point is in equilibrium under the combined electric field of three charges q 1,q 2, q 3. If the charges q 1, q 2 are located at points and respectively, find the direction of the force on Q, due to q

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