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atomic weight also called relative atomic mass ratio of the average mass of a chemical element s atoms to some standard since 1961 the standard unit of atomic mass has been one twelfth the mass of an atom of the isotope carbon 12 an isotope is one of two or more species of atoms of the same chemical element that have different atomic mass numbers protons neutrons, **atomic theory physics britannica com** - atomic theory atomic theory ancient philosophical speculation that all things can be accounted for by innumerable combinations of hard small indivisible particles called atoms of various sizes but of the same basic material or the modern scientific theory of matter according to which the chemical elements, **physics spotlighting exceptional research** - quantum information focus twisted light in a photonic chip december 7 2018 light waves capable of storing quantum information can propagate through a photonic chip waveguide and potentially be used for on chip computation, **scitation is home to the most influential news comment** - 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