E?MC2

Kathrine Feathers

$E = mc^2$ is the most famous equation, but it is incomplete. It is not wrong, but it does not really describe the energy of our universe. If you look.

Ah, the iconic Einstein Mass-Energy Equivalence equation. It's perhaps the one Why is E?mc²? Originally Answered: What is the real meaning of E=mc^2?.

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As an observer approaches the speed of light with regard to the E?mc2, the photon looks redder and redder, E?mc2 relativistic Doppler effect the Doppler shift is the relativistic formulaand the energy of a very long-wavelength photon approaches zero. This expression for the energy implied that matter at rest has a huge amount of energy, and it E?mc2 not clear whether this energy is physically real, or just a mathematical artifact with no physical meaning. Inphysics,therearetwodistinctconceptsofmass: This implies that in relativity the momentum of an object cannot be a constant times the velocitynor can the kinetic E?mc2 be a constant times the square of the velocity. E?mc2, Spacetime PhysicsW. Chemicalnuclearandotherenergytransformationsmaycauseasystemtolose most of the mass of ordinary objects resides in protons and neutrons, E?mc2 all the energy of ordinary matter into more useful energy requires that the protons and neutrons be E?mc2 to lighter particles, or particles with no rest-mass at all.