<https://www.bnl.gov/newsroom/news.php?a=119023>

Mass measure body’s energy content.

replicators in scifi star trek and Babylon 5

Electron-Positron pair created from the collision of two photons.

Simplest possible way for light to be transformed into matter.

Non-linear Breit-Wheeler process one high energy photon

Relativistic Heavy Ion Collider in Upton, New York

99.995% light speed

Circular magnetic + perpendicular electric -> photon

Ultra-peripheral: Nuclei just miss

Direct one step creation of matter

Empy space magnetic field polarization deflects polarized photons