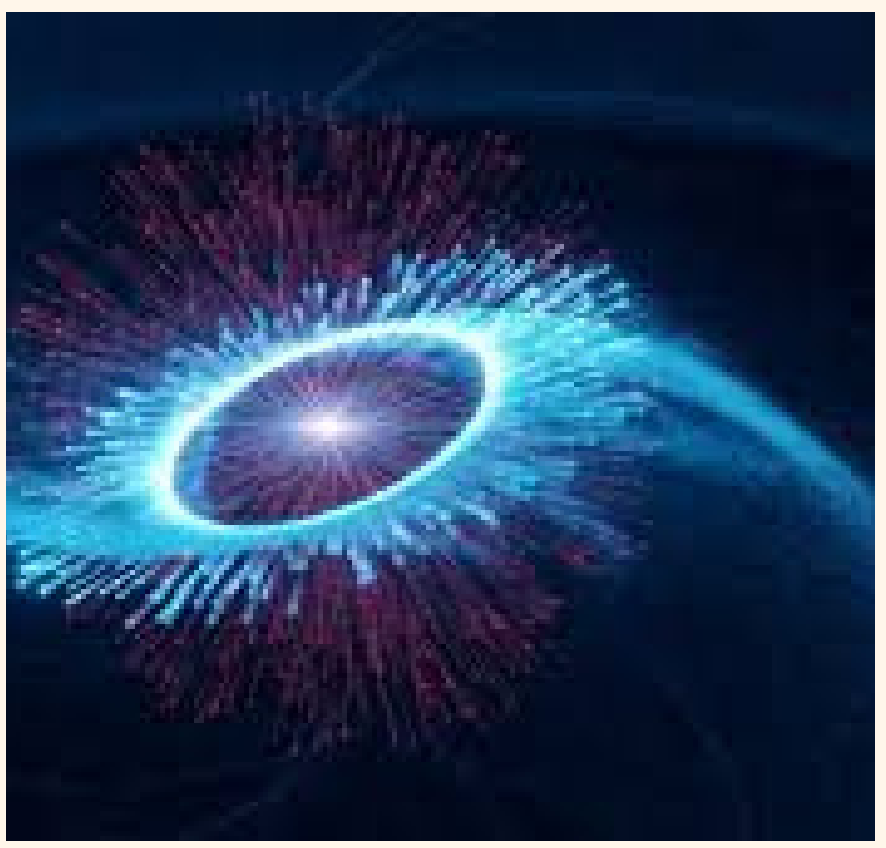


WHICH TYPE OF ELECTROMAGNETIC RADIATION HAS THE SHORTEST WAVELENGTH?

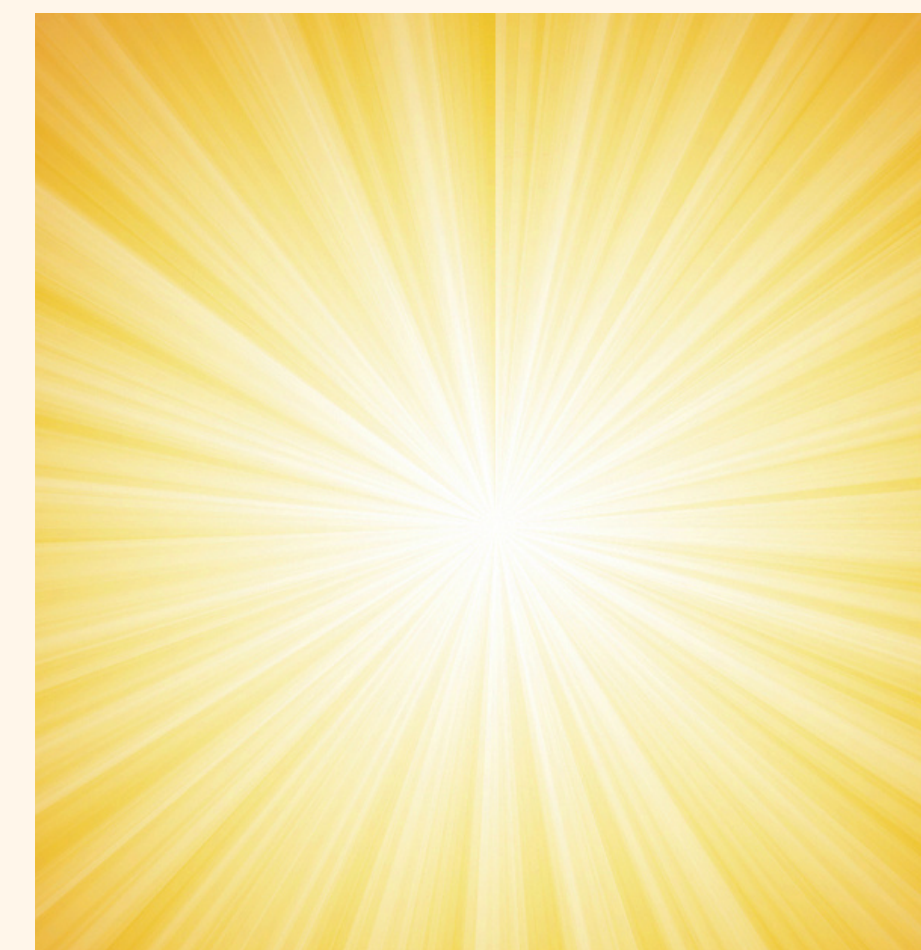
Gamma rays have the shortest wavelength among all types of electromagnetic radiation. Their wavelengths are very tiny, from less than 1×10^{-12} meters to even smaller.

WAVELENGTH



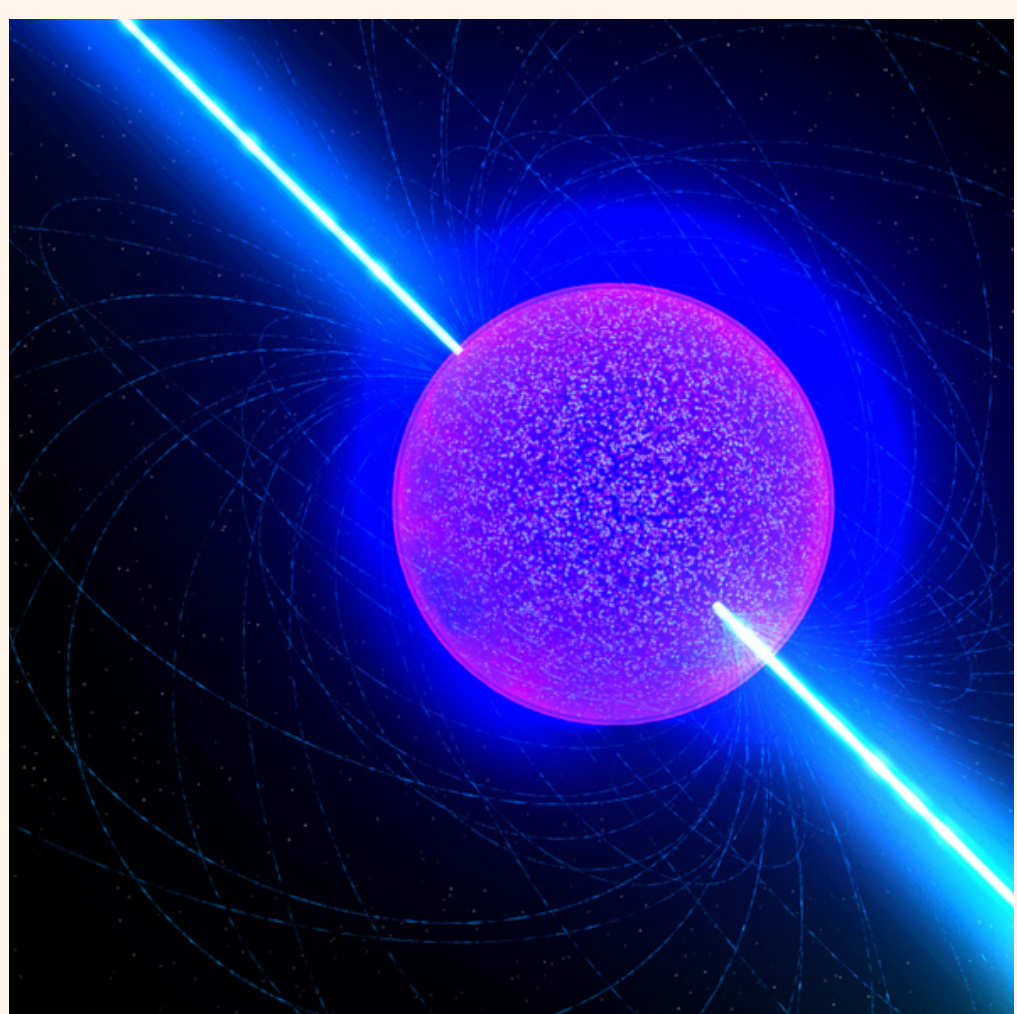
Gamma rays have the shortest wavelengths of any type of electromagnetic radiation, typically less than 10 picometers (1 picometer is 10^{-12} meters).

ENERGY



Gamma rays have the highest energy of any type of electromagnetic radiation.

PENETRATION



Gamma rays are very penetrating and can pass through most materials, including lead and concrete.

IONIZING RADIATION



Gamma rays are ionizing radiation, which means they can knock electrons out of atoms and molecules. This can damage cells and DNA, and can lead to cancer and other health problems.