

ASTROLYMPICS

NASA



www.nasa.gov

Definition: how much matter an object contains.
Alternative definition: how many atoms are in an object.

Units: kilograms (kg), pounds (lb), solar masses

OLYMPIC EXAMPLE

Men's shotput:
7.26 kg (16.01 lb)



COSMIC EXAMPLE

Mass of Sagittarius A*:
4 million solar masses or
 8×10^{36} kg

The center of our Milky Way galaxy contains a giant black hole with the mass equivalent to about 4 million Suns, or about 8×10^{36} kg.

ILLUSTRATION OF SAGITTARIUS A

