

Relativistic mass

$$m = \frac{m_0}{\sqrt{1 - \frac{v^2}{c^2}}}$$

Time dilation

$$\Delta t = \frac{\Delta t_0}{\sqrt{1 - \frac{v^2}{c^2}}}$$

Length contraction

$$L = L_0 \sqrt{1 - \frac{v^2}{c^2}}$$

Symbol	Magnitude	S.I. unit
m	Relativistic mass. Mass measured by an observer in motion relative to the object.	kg
m_0	Rest mass. Mass measured by an observer moving along with the object.	kg
Δt	Time interval measured by an observer in motion relative to the object.	s
Δt_0	Proper time interval. Time interval measured by an observer moving along with the object.	s
L	Length measured by an observer in motion relative to the object.	m
L_0	Proper length. Length measured by an observer moving along with the object.	m
v	Speed	m/s
c	Speed of light 299 792 458	m/s