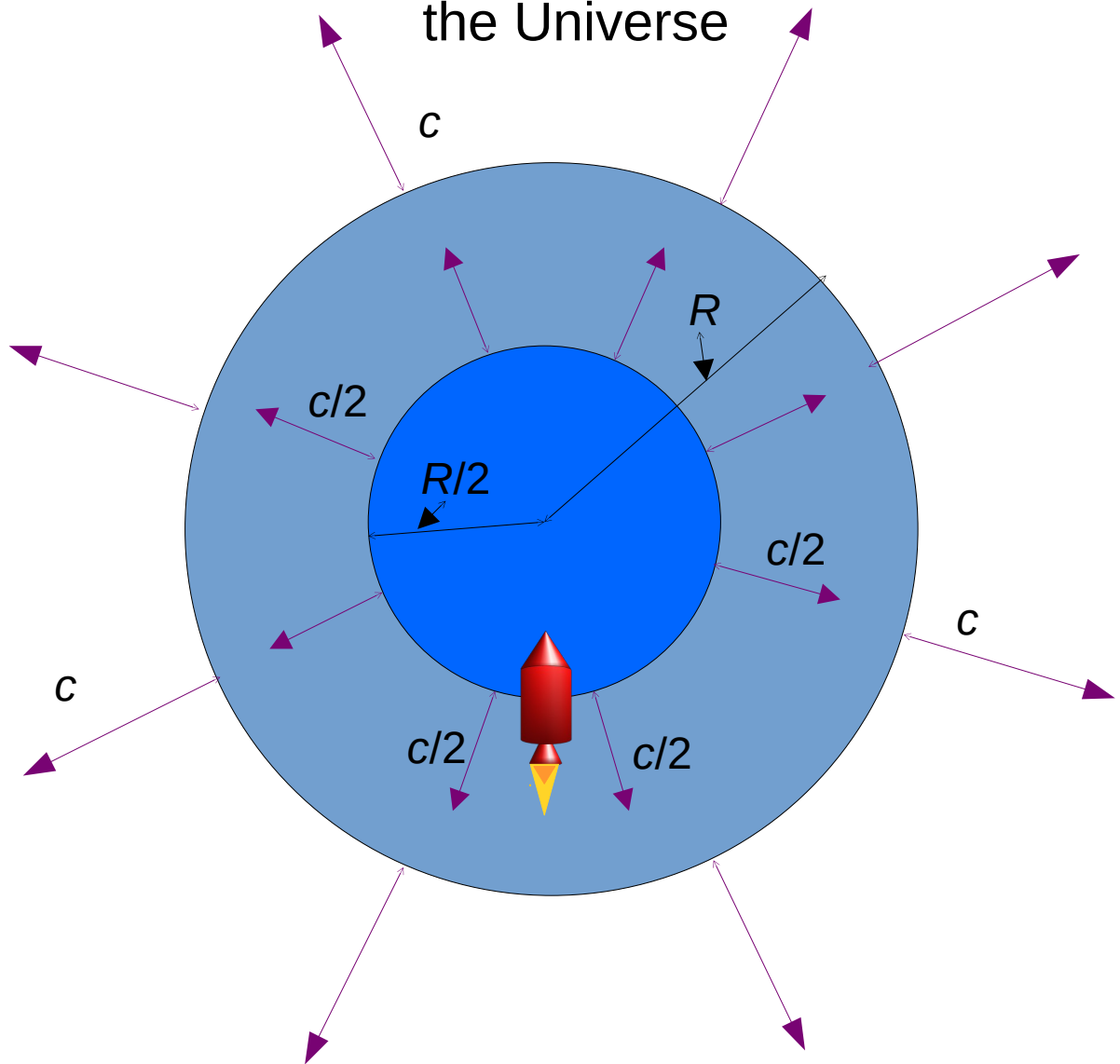# Traveling with a velocity c/2 relative to the nearby co-moving matter of the Universe

R is the radius of the Universe

c is the velocity of light

A spacecraft is traveling in the direction it is pointing. It is stationary relative to the centre of the sphere of the Universe it sees. It is at a distance r/2 from the centre, and It is moving with a velocity c/2 relative to the co-moving bodies it is passing.