The mean lifetime of these muons in their frame of reference is 2.20 µs. The muons are travelling at 0.99c relative to an observer on Earth.

The observer measures the mean lifetime of these muons as

7. Muons are created in the upper atmosphere of the Earth.

A
$$1.56 \times 10^{-2}$$
 s
B 2.20×10^{-3} s

 1.11×10^{-4} s

E 3.10×10^{-7} s.

D 1.56×10^{-5} s