$$v = \frac{s_{lab}}{t_{lab}} = \frac{3\ \ 10^{-2}}{\frac{1{,}5\ \ 10^{-10}}{\sqrt{1-\left(\frac{v}{c}\right)^2}}} = \frac{3\ 10^{-2}}{1{,}5\ 10^{-10}}\sqrt{1-\left(\frac{v}{c}\right)^2}$$

$$v^2 = \frac{9\cdot 10^{-4}}{2{,}25\cdot 10^{-20}}\left(1-\left(\frac{v}{c}\right)^2\right) = 4\cdot 10^{16} - 4\cdot 10^{16}\,\frac{v^2}{c^2}$$

$$v = \frac{6}{\sqrt{13}}\,10^8 = 0{,}55c$$