Testing LaTeX Accessibility

Zaphod Beeblebrox
Sirius Cybernetics Corporation
(Dated: June 3, 2023)

1 Introduction

When GPT-4 first came out, it immediately gained the attention of scientists [**?**]. Here we test if it can be used to create WCAG-compliant HTML based on LaTeX source code.

2 Some Useful Formulas

When formulating what is called Special Relativity today, Einstein started with the Maxwell equations, like this one [**?**]:

$$\oint \vec{E} \cdot d\vec{S} = \frac{1}{\epsilon_0} \iiint edV \tag{1}$$

Table I lists some of the most commonly used relativistic equations [**?**].

And then there is one of the most famous formulas of physics [**?**]:

$$E = \frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} \tag{2}$$

Of course, all of these formulas are merely consequences of the Lorentz transformation between two moving frames of reference. Consider a rotation matrix about the z-axis in three-dimensional space,

$$x' = Dx \tag{3}$$

The Lorentz Transformation is a four-dimensional rotation with a matrix Λ^{ν}_{μ}:

$$x'^{\nu} = \Lambda^{\nu}_{\mu} x^{\mu} \tag{4}$$

where we imply the summation convention,

$$x'^{\nu} = \sum_{\mu=0}^{3} \Lambda^{\nu}_{\mu} x^{\mu} \tag{5}$$

3 More Equations

$$\sqrt{x^2 + 2x - 3} \tag{6}$$

$$x = \frac{\sqrt{19i} + 3}{2} \tag{7}$$

$$\cos^2(x + 3) + \sin^2(x) \tag{8}$$

$$x = 2 * (\sqrt{25\pi} + i) \tag{9}$$

4 Other Remarks

One could say a lot more about Special Relativity, but don't panic [**?**]! At the very least, remember equation (2).