

Review of: "The FLRW Geometries and the Expansion of the Universe"

Usamah Al-Ali¹

¹ Saudi Electronic University

Potential competing interests: No potential competing interests to declare.

The article is original and introduces a modification to the Friedman-Lemaitre-Robertson metric which is, in my opinion, interesting and deserves further investigation by physicists.

However, I have the following remark:

The author points out that Special Relativity is violated if the rate of expansion of the universe is larger than the speed of light, which is not true as Special Relativity does not prohibit the expansion of space to exceed the speed of light. The theory does not allow any object to travel faster than light, but when space expands faster than light, nothing actually is moving, especially if we believe in the geometric interpretation of cosmology. Therefore, I don't see why the author emphasizes in the final remark that his second metric complies with Special Relativity when this is equally true for the Friedman metric as well.