

Peer Review

Review of: "The Sagnac Effect and General Relativity Foundations"

Tolga Yarman¹

1. Okan University, Turkey

This is an interesting article. Still, in order to strengthen the completeness of the discussion, I recommend that the author consider referencing complementary analyses of the Sagnac effect in rotating systems developed by Yarman and collaborators. In particular, the article *Eur. Phys. J. Plus* (2013) 128: 134, and subsequent UMA/RMD contributions (summarized in *TWMS J. App. and Eng. Math.* V.10, N.4, 2020, pp. 987-1008), propose an energy-conservation-based framework (Rest-Mass Dynamics) where rotational length contraction is absent, while time dilation arises from both displacement and binding, leading to effective k -values in agreement with experiment. These results offer an alternative yet consistent explanation of the Sagnac effect (see the footnote on page 3 of the mentioned article that appeared in *EPJ Plus*, in 2013), and rotational time dilation, and including them would enrich the article by showing readers a broader spectrum of approaches currently under discussion.

I would like to see the revised article.

You can show my name to the author.

Tolga Yarman, Ph.D., 1972, Massachusetts Institute of Technology,

Nuclear Science & Engineering, Professor, Istanbul Okan University, Turkey

Declarations

Potential competing interests: No potential competing interests to declare.