

GR 23: Alternative Ansätze

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Review of the relationship between the Galileo principle and the velocity of light — ●SHUKRI KLINAKU — University of Prishtina, Sheshi Nëna Terezë, Prishtinë, Kosovo

In the part of physics called "classical mechanics" the Galileo's principle of relativity is accepted by all. But, according to the theory of special relativity (TSR) this principle can't be applied for the light. By analyzing several experiments (Fizeau's experiment, Michelson's experiment, de Sitter's observation and Alväger's experiment) in this

paper it will be concluded that the reliance of TSR's postulates in those experiments is unsustainable. The essence of the reviewing of these experiments is that some of them do not have the same conditions as the motion to which refers the Galileo principle (Fizeau's experiment, the de Sitter's observation and the Alväger's experiment) and in some of them the Galileo principle is not applied correctly (Michelson's experiment). In this paper it is also concluded that the light obeys to the Galileo principle like all other bodies. Finally, an idea is proposed for conducting an experiment which will prove that the velocity of light is not constant in all reference frames.