

# On the Physical Consistency of the Special Theory of Relativity (STR)

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## Abstract

There are well-established facts whose validity is beyond any doubt, such as the fact that  $2 + 2 = 4$  or the fact that, say, a lamp that can only flash once in its entire lifetime can only flash at a given coordinate  $x$  and at a given time  $t$  in a given system  $O$ . Such lamp cannot flash at a given moment  $t$  at two different coordinates  $x$  in this system  $O$ . A theory is physically inconsistent if it leads to conclusions which contradict such well-established facts. In this text arguments are given which show that STR leads to conclusions which are in contradiction with well-established facts and therefore it is physically inconsistent.

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