

Abstract Submitted
for the CAL13 Meeting of
The American Physical Society

The Spacetime-Interval does not Distinguish Between Events'

Nature FLORENTIN SMARANDACHE, University of New Mexico — If an event E_1 occurs at location $L_1(x_1, y_1, z_1)$ and time t_1 , and another event E_2 occurs at the location $L_2(x_2, y_2, z_2)$ and time t_2 , with $t_1 \leq t_2$, in the Minkowski spacetime, the squared distance $d^2(E_1, E_2)$ between them is the same and equal to:

$$d^2(E_1, E_2) = c^2(t_2 - t_1)^2 - [(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2]$$

no matter what kind of events we have! For example, if one has the event $E1=\{John\ drinks\}$ and the event $E2=\{George\ eats\}$, there is no connection between these two events. Or if one has two connected events: $E1=\{Arthur\ is\ born\}$ and $E2=\{Arthur\ dies\}$. There should be at least one parameter [let's call it " N'' " in the above (Δs^2) spacetime coordinate formula representing the event's nature.

Florentin Smarandache
University of New Mexico

Date submitted: 14 Aug 2013

Electronic form version 1.4