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A Discussion of Special Relativity

Galina Weinstein

(Submitted on 1 May 2012)

Five topics: A rigid body does not exist in the special theory of relativity; distant simultaneity defined with respect to a given frame of reference without any reference to synchronized clocks; challenges on Einstein's connection of synchronization and contraction; a theory of relativity without light, composition of relative velocities and space of relative velocities.

Comments: This paper is based on conversations with John Stachel and primary sources

Subjects: History and Philosophy of Physics (physics.hist-ph)

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