

“Spooky Action” is a well known phenomenon in car engines

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Abstract

Einstein had claimed that simultaneity of actions at distant positions is impossible due to the finite speed of light. However, Zeilinger and Salart et al. have shown that entanglement enables photons to transmit information at speeds much higher than the speed of light. Einstein called entanglement “spooky action at a distance”. Ives did not agree with this and showed in 1939 that information can travel faster than light using a double Fizeau toothed wheel.

A camshaft in a car engine is, in principle, functioning the same way as it switches several valves distributed along the camshaft at well defined times. Synchronization is entirely mechanical and instantaneous or, in Einstein’s words, spooky action at a finite distance occurs. It can, in fact, be made so fast that even the one-way speed of light can be and has indeed been measured this way.