

Quantum entanglement, a scientific approach to human teleportation

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The aim of the present paper is to find the answer, from both classical and quantum points of view, to the questions: ‘Can quantum teleportation be used for superluminal communication?’ or ‘Will we ever be able to teleport people?’ To this end, in addition to illustration of theoretical and experimental teleportation, feasibility of this phenomenon in its natural and laboratory forms are discussed.

Results from the latest peer-reviewed research activities about teleportation of objects confirm that teleportation of quantum particles (spins, etc.) has already been achieved in laboratories. It is found, however, that neither adequate experimental evidences nor coherent theoretical backing exists to prove the teleportation of an object containing a collection of these particles. Nonetheless, since experimental study of large quantum systems, due to known difficulties, has so far not been realised, it is quite possible that study of such systems result in sensational findings. Of course, the final answer to whether teleportation of people is possible, even in principle, must wait for the formulation of a complete theory of physics; one which unifies relativity with quantum mechanics. Until then, however, the emergence of quantum computers could be the game changer, with the hope that they can turn into platforms for development of quantum communication and maybe one day real teleportation.

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