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IOTT- Indirect observation of time travel

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In a startling discovery it has been recently found that certain density of states can become negative in mesoscopic systems wherein electrons can travel back in time. We give a brief introduction to the hierarchy of density of states in mesoscopic systems as we want to point out some robust phenomenon that can be experimentally observed with our present day technologies. They can have direct consequences on thermodynamic effects of small quantum systems and also can provide indirect evidence of time travel. Essentially certain members of the hierarchy become negative in these regimes and that has consequences.

Biography

P. Singha Deo did his PhD in 1996 and has remained associated with research and teaching in physics in premier institutions and universities abroad and in India. He has published more than 50 papers in international journals and a book on mesoscopic physics. He is a Professor at S N Bose Centre, Kolkata since 1999 and successfully guided several PhD theses. Some of his current research topics include quantum devices, quantum capacitance, bosonization in higher dimensions, quantum mechanical scattering phase shift in low dimensions, time travel, etc.

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