Contribution ID: **79** Type: **talk**

Time machines, teleporters, and quasiregular singularities

Wednesday 25 September 2024 15:10 (25 minutes)

In this talk, I review the Deutsch-Politzer spacetime, the related teleporter spacetime, and the quasiregular singularities necessarily present in such spacetimes. Such singularities, characterized by points with multiple future-directed and past-directed light cones, are generalizations of conical singularities and can reveal insights into topology change and the termination point of an evaporating black hole horizon. I then describe a gravity theory that can in principle provide a microscopic description for such singularities.

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Session Classification: Session VI. Information paradox and thermodynamics of gravity