## The Time Machine Factory [unspeakable, speakable] on Time Travel -TMF2024



Contribution ID: 84

Type: talk

## **Carroll black holes**

Wednesday 25 September 2024 14:35 (35 minutes)

Carroll symmetries arise generically on null hypersurfaces, such as black hole event horizons or null infinity in asymptotically flat spacetimes. Carroll gravity is a gravitational theory based on Carroll symmetries. Carroll black holes are solutions of Carroll gravity that exhibit Carroll thermal properties and have a Carroll extremal surface. I review, motivate, and explain all these notions and address recent results on the Carroll Hawking effect.

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