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Preemptive chronology protection and superluminal travel.

Wednesday, 9 October 2019 14:55 (45 minutes)

In this talk I shall review the implications of superluminal travel and the means by which it can be achieved in classical General Relativity. We shall then see in the specific case of superluminal warp drives how it seems that a preemptive form of chronological protection is at work once their dynamics it is analysed within quantum field theory in curved spacetime. Finally, we shall discuss the robustness of this chronological protection with respect the details of the spacetime structure.

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