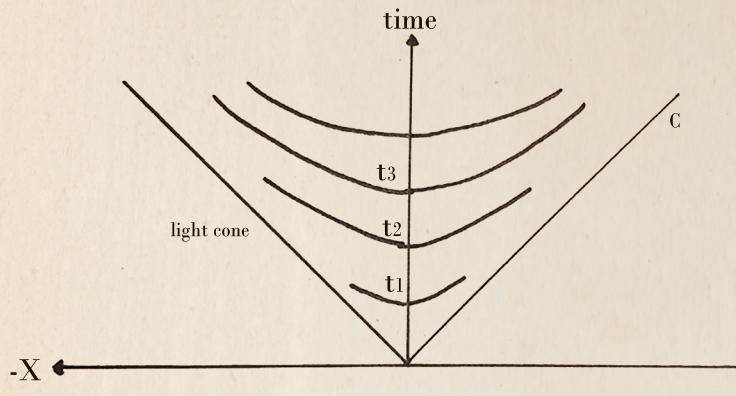
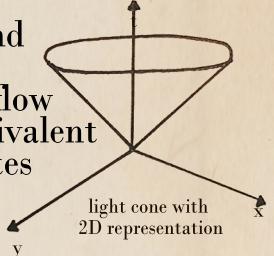


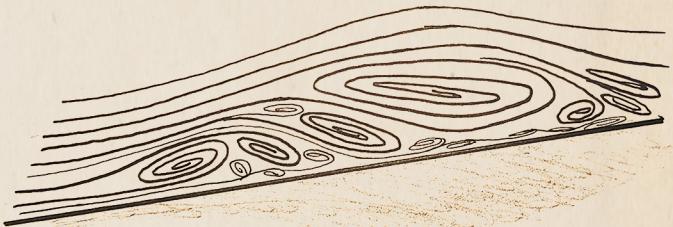
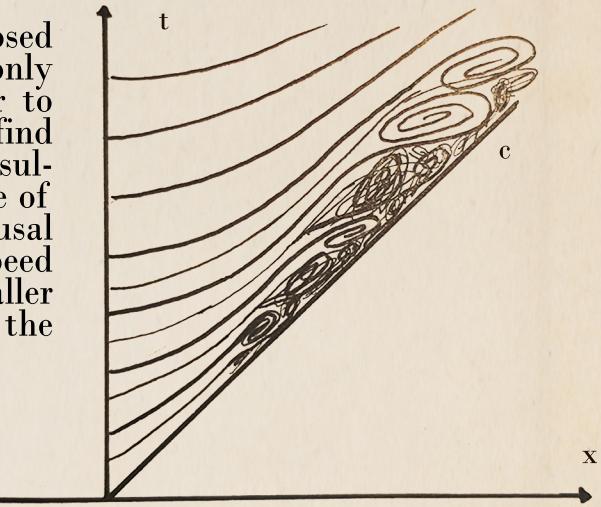
Semi-Causal Structure of SPACETIME



Think of a certain universe where the time is an entity such that it is greatly influenced by the gravity. It has viscosity and it is restricted to flow only forwards in time. It can experience turbulence phenomena and time shifts occur at those instances. The turbulent flow creates a force that is equivalent to the gravity and it creates strong waves just like hurricanes.



Gödel Metric is not the only solution that allows closed timelike curves and closed timelike curves are not the only reason for causal structure to be violated. In order to establish a physical causal structure, one has to find relation between the spacetime events such that the resultant relations will emerge to a global causal structure of spacetime. This space time definition creates semi-causal structure where the time shift can occur in high speed accelerated turbulent areas. For speeds much smaller than the speed of light no turbulence is observed and the time flow is laminar.



Our such defined universe has some strict rules. These rules are listed below and it is known that they are surely strict.

Time only flow in constant forwards direction.
The speed of light is impossible to achieve.
causality is conserved for low speeds.

