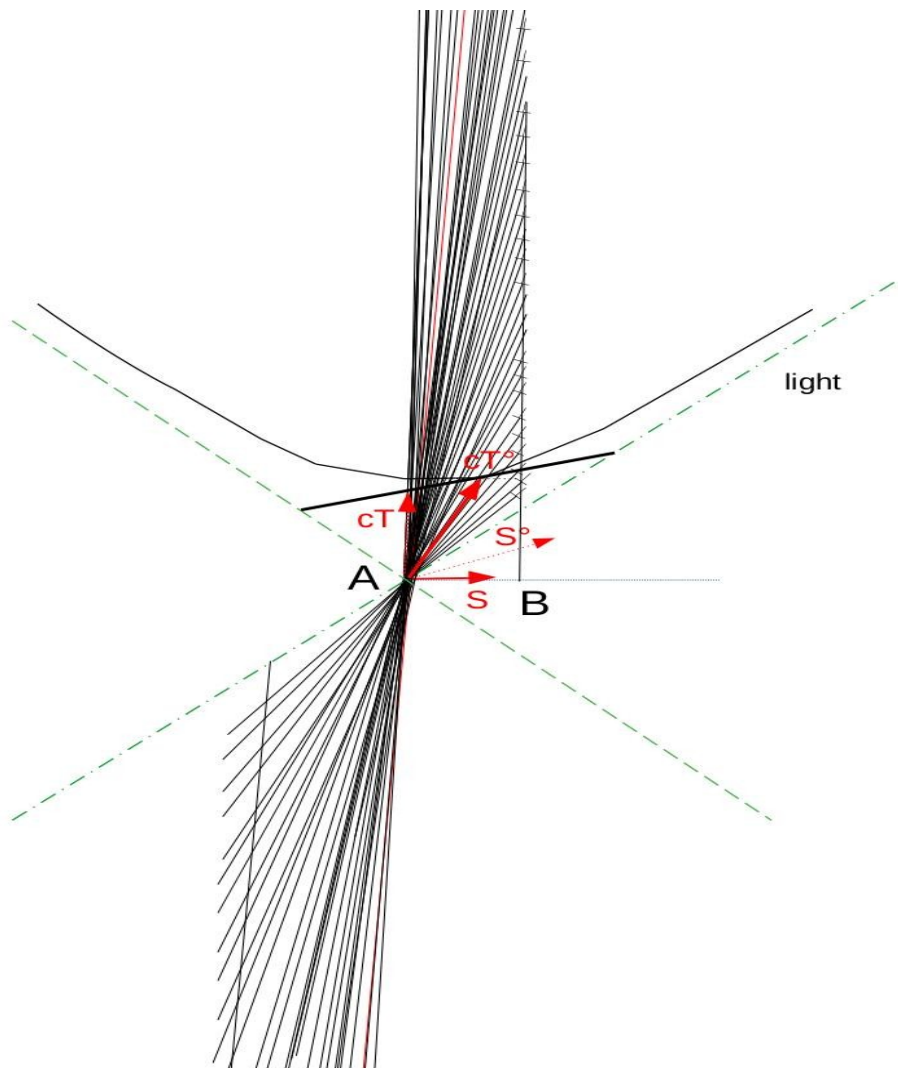


Cybertransfer

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About

A concept for a blockchain based on a new mining algorithm for a crypto currency. The underlying algorithm is a generalization of ride pooling algorithms for vehicles to objects that move close to the speed of light. A decentralized economic model to value space time agreements (Cybertransfer).

Idea

Imagine peers with solar panels collectively unify and use the stored sun energy to participate in a virtual game (Spacecab) to earn rewards in crypto currency.

Spacecab

(proof of relativity)

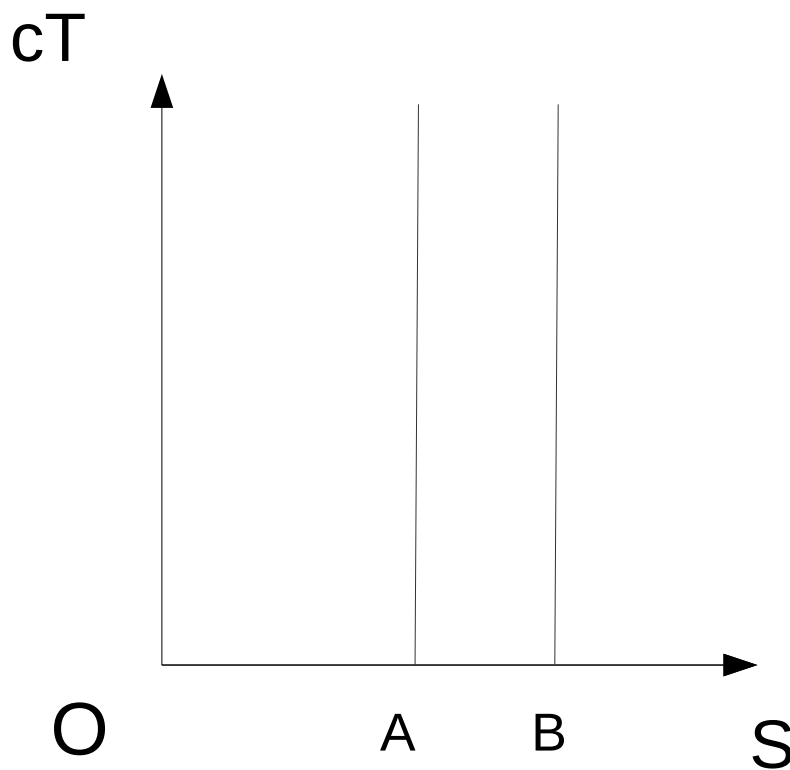
We discuss actions for miners to interact according an open source protocol.

- 1) space time swap.
- 2) enter/exit mechanism.

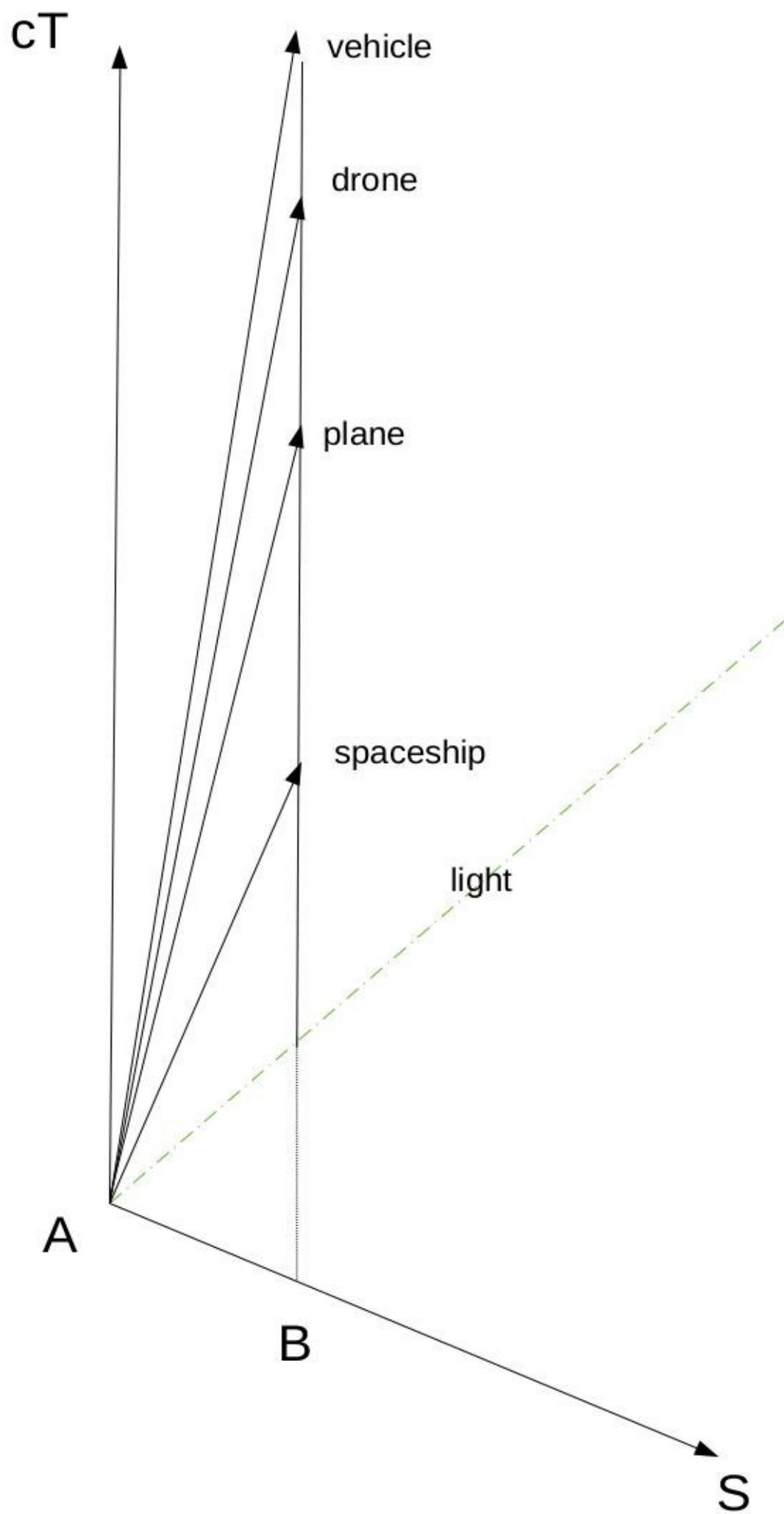
Space-Time-Swap

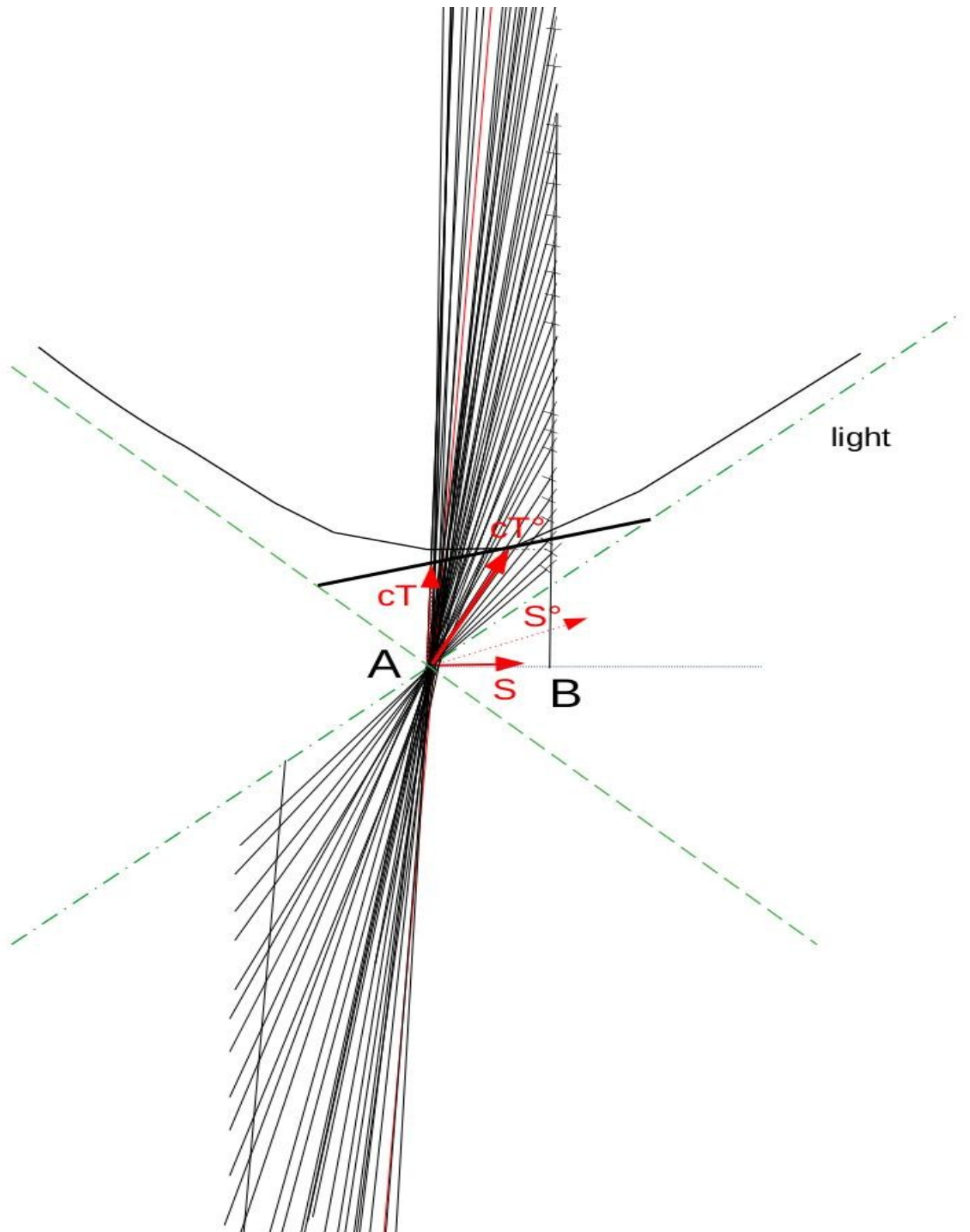
The space time swap indicates the scarcity of light. Light is the reason for time and space emerging in duality. Special relativity objectives the non fungible nature of space and time.

Imagine two points A and B in vacuum
being in relative rest according an
inertial frame of reference.

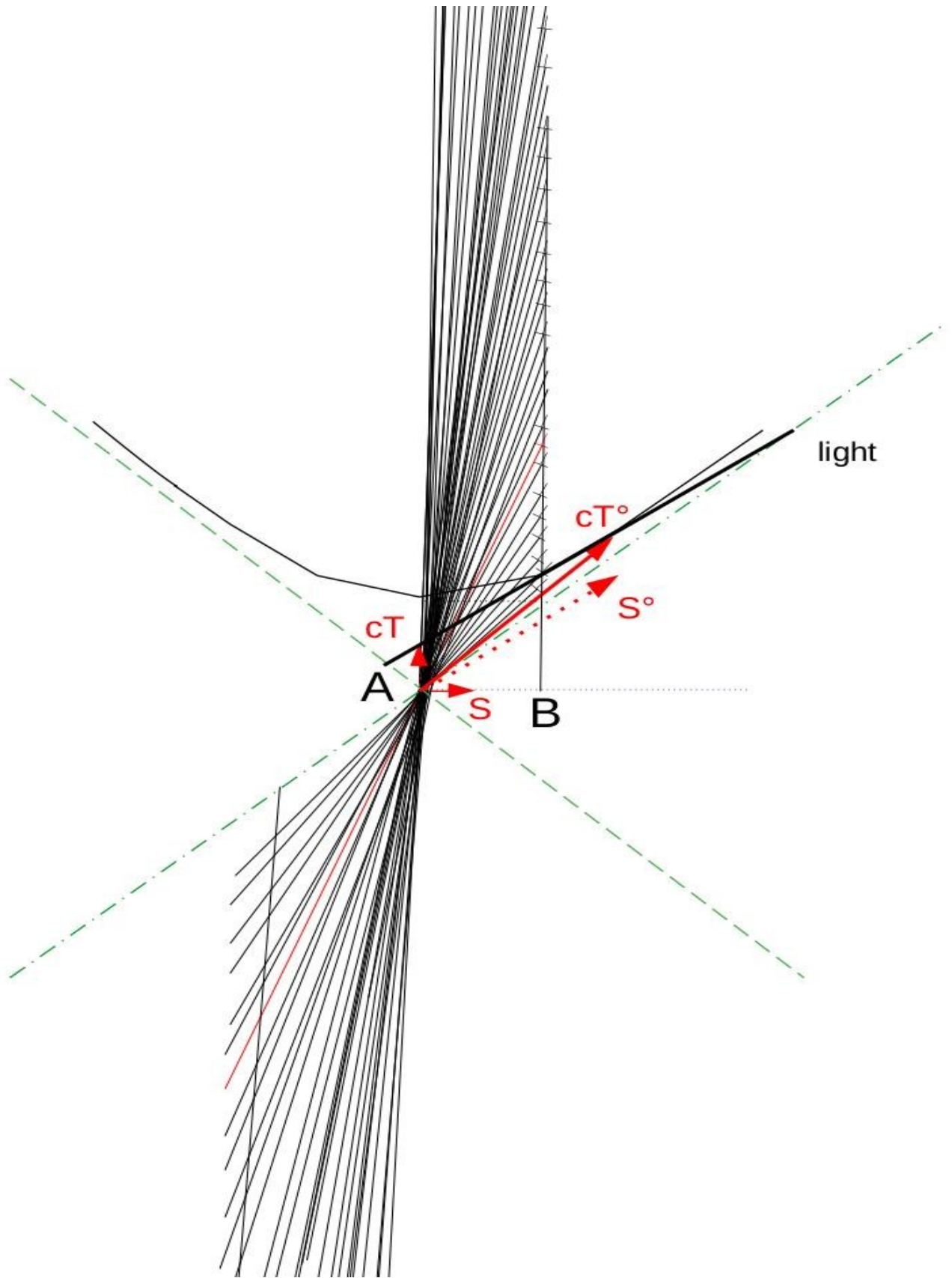


In vacuum the speed of light is constant and
independent of the source of measurement.
We explain a payment mechanism.





Slow space time swaps are cheap.



Fast space time swaps are expensive.

Slow paths appear often and fast one appear seldom. Tangents of points on a hyperbola

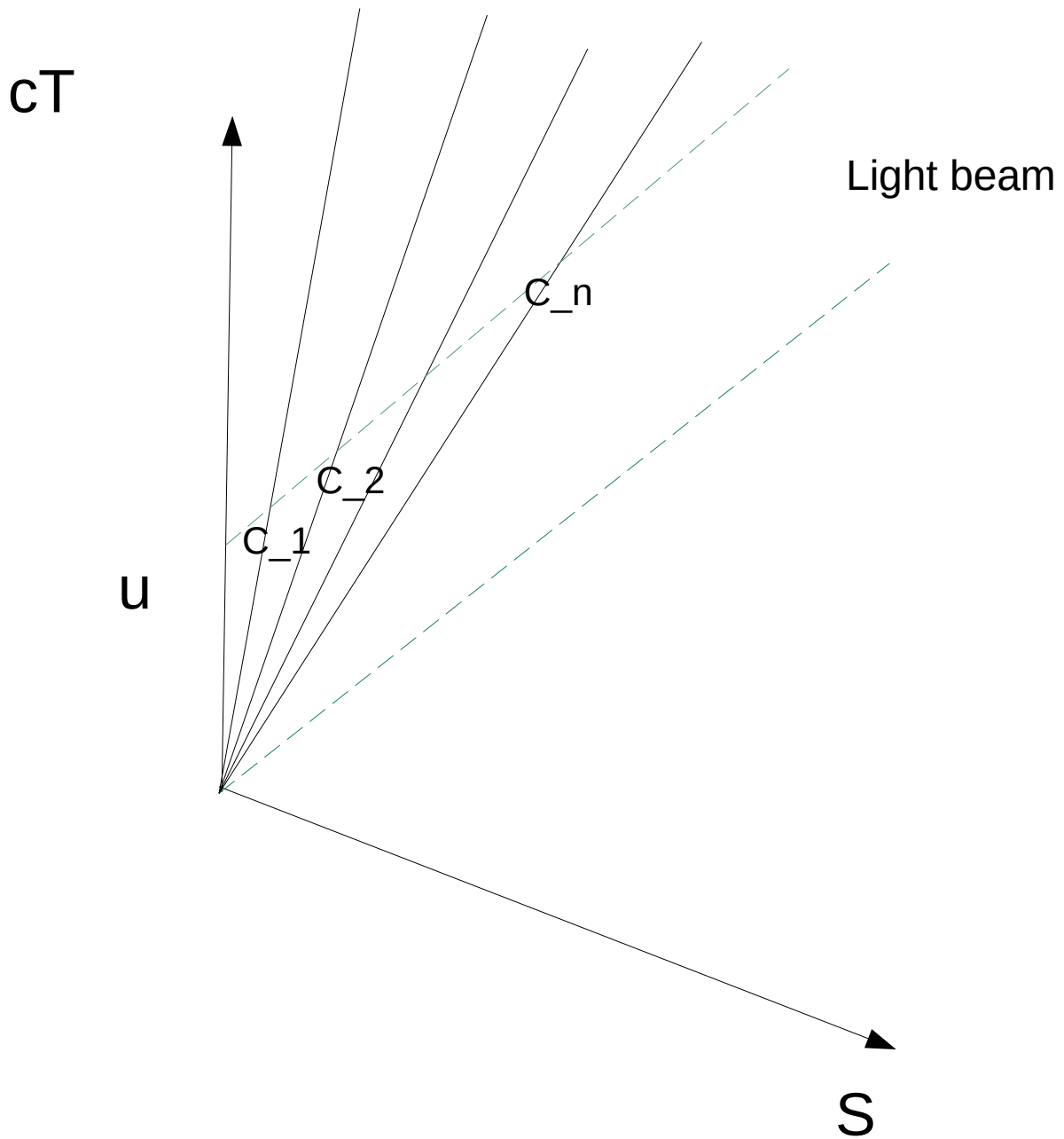
$$c^2T^2 - S^2 = (A-B)^2$$

describe the density distribution.
User requests with a necessity to transfer from A to B compare trajectories to the path of light and initiate two inertial frames of reference.

Def: A space time swap is a transition change from (cT, S) to (cT°, S°) for points cT° on a hyperbola. A price derives implicitly and is determined by the magnitude of the tangent.

Prices for trajectories close to the speed of light go to infinity, while paths in rest relative to A and B are for free.

The puzzle (pooling)

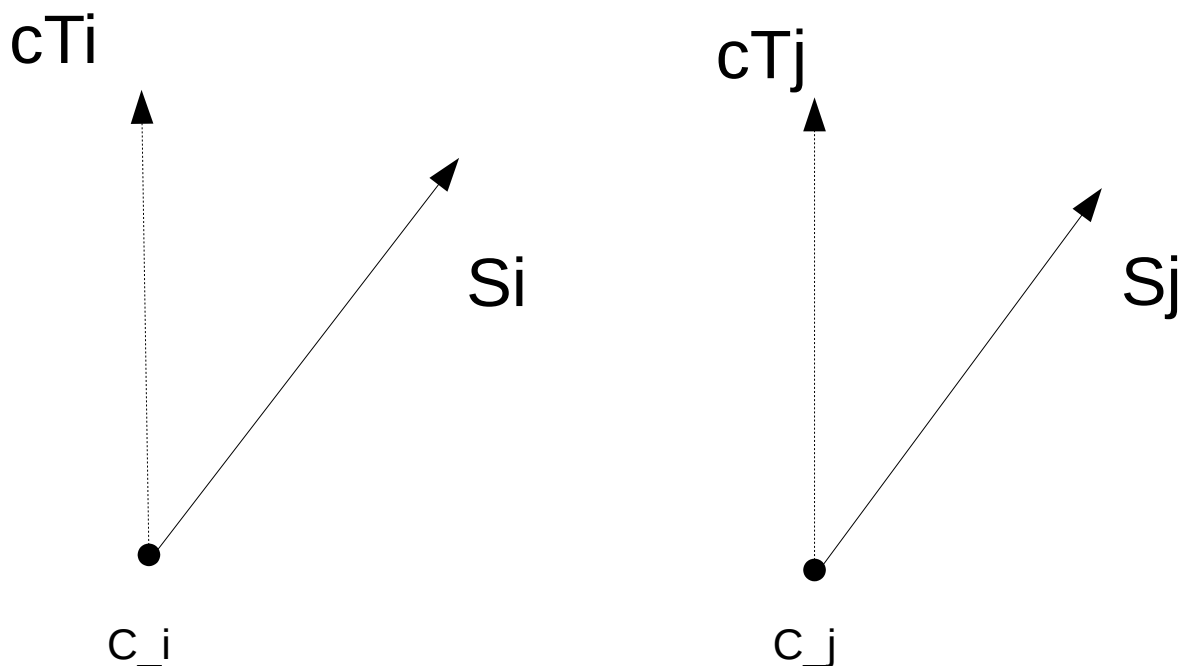


Solar miners passing with different velocities representing the computation power.

The space-time-swap explained the mechanics to order a transfer for any two points A and B in relative rest. Imagine that solar miners with their relative sun energy represent a computation power phrased in constant velocities

$$(v_1, \dots, v_n)$$

of participating miners simultaneously passing by. A solar miner can randomly pick any two points in relative rest and initiate a space-time-swap. According to the theory of relativity each solar miner has its own appreciation of space time in the coordinate frame (cT_i, S_i) .



Where any two solar miners can find an agreement according the value along a common point of a hyperbola.

$$c^2T_j^2 - S_j^2 = c^2T_i^2 - S_i^2$$

The miners can even find an agreement for coordinating the initiated space-time-swap (proof of relativity).

Market/Need

1) Distributing hardware to solar panel owners for participating on a solar mining.

2) Increase of potential value of the mined currency, after initialization.

The mined currency could have an advantage compared to Bitcoin or Ethereum (small volume transactions more feasible) and has a potential to be a solution for the Blockchain trilemma.