

The Thought Experiment which Breaks the Speed of Light

I take two upturned cups and ask two observers we have invited, to turn away. I place the two cups halfway between our observers and then place a counter beneath one of the cups. I then ask our observers to turn back. I can run the following scenario: -

Let one of them guess which cup holds the counter. By chance he chooses the wrong cup, which we turn up. No counter is found beneath the cup. What does our observer deduce? Obviously, the counter must be under the other cup.

Now let us run the experiment again using the other observer. Again, we turn up the cup without the counter beneath it. Again, what do each of the observers deduce? The counter must be beneath the other cup.

Now we have established that neither of the observers occupies a special viewpoint, we note that the same thought occurs to both at the same time, though they are not in direct communication. They are joined only by the signal sent out halfway between them. Each observer is a distance S from the cups mid-way between them.

Let us examine that more closely: The signal travels out to both observers at the Speed of Light. It is picked up simultaneously by the two observers and both have mental events that correctly deduce the position of the counter.

May we now say that the Information itself about the counter has travelled at twice light speed since $2 \times S$ distance is covered in time T .

We can, since both receive the Signal simultaneously, at the distance $2S$ from each other

So, we propose that the Information has broken The Speed of Light by a factor of 2, which it has, and we can now set co-ordinates for this Information in this new space, faster than Light Speed, accordingly.

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