

Testing the oneway lightspeed constancy

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Hi

My first post in this group!

I am interested if the testing, which can be done easily by astronomers, has ever been done the way I will describe it below, or not.

Experiment description:

<----- Earth movement at
spring : register Df

Star * light---->
----->Earth movement at
fall : register Df

Notations : D= delta ; f=frequency ; Df=Doppler shift

The time period fall- spring is just for illustration purposes.

What is being done is : The Doppler-shifted light emitted by

a star is registered on Earth at an approx. 6 month interval.

The star should be seen in the planetary movement plane of Earth, that is, it should be seen at East - West direction.

Now, if Df proves to be the very same value for a given line of the stars-light spectrum, then c is independent of the observer's movement,

as it should be according to the special relativity theory.

Regards, LL

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