

On the expansion of the wave fluctuation when the source of the fluctuation is in the movement

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The article describes the expansion of the wave fluctuation into individual wave fluctuations with smaller amplitudes and higher frequencies when the source of fluctuation is in the movement in the medium, transmitting the wave, in the direction dissenting direction of the movement of the fluctuation.

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If the source, motionless relatively the medium, transmitting the wave, emit the wave fluctuation \mathbf{S}_0 with amplitude \mathbf{A}_0 and period \mathbf{T}_0 over the time $\mathbf{T}_0 \cdot \mathbf{n}$ (where \mathbf{n} is an integer), in the case of a source moving with velocity \mathbf{V} , the direction of the vector of which does not coincide with the direction of the source radiation, radiation from the source will be a wave fluctuations $\mathbf{S}_1, \dots, \mathbf{S}_n, \dots, \mathbf{S}_{2n}$ respectively with amplitudes $\mathbf{A}_1, \dots, \mathbf{A}_n, \dots, \mathbf{A}_{2n}$, less \mathbf{A}_0 , and periods $\mathbf{T}_1, \dots, \mathbf{T}_n, \dots, \mathbf{T}_{2n}$, less \mathbf{T}_0 .

Given the above, it is possible to evaluate of the results of the experiments by Michelson-Morley.

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