

THE ORIGIN OF THE DIFFRACTED LIGHT- A REVISITING USING

THE RIGHT EXPERIMENT AND METHOD,

AT THE AGORA LABORATORY FOR CLASS AND COMMUNITY (ALC)

1) AN OVERLOOKED EXPERIMENT

Surprisingly, an important measurement was overlooked in the elementary experiment of single edge diffraction in optics. Does the diffracted light in geometrical optics depend on the laser beam thickness? We pursue an exhaustive measurement to answer this question. Both a “YES” or a “NO” would be important, as they prove without a doubt two opposing views regarding the origin of diffracted light.

A “NO” would force new ideas regarding the physics of light. Such a case is not impossible, considering the many difficulties in the theory of light. Something simple could have been overlooked ... ☺. It is worth to give it a try. The experimental procedure is relatively complex – the edge must be placed exactly on the beam axis, the diffracted light is weak and varies strongly, etc. Exhaustive measurements will take a long time. So we need help.

2) A FORGOTTEN METHOD

A long-term focus of a small class/community on the above important experiment; an informal debate, analysis and synthetic thinking at a deliberate pace; an attempt to obtain new data and an advanced synthesis of the opposing views (a synthetic view) on the diffracted light: we call this method

THE AGORA LABORATORY FOR CLASS AND COMMUNITY (ALC)

- to recognize the small school for advanced synthesis of Ancient Greece.

3) COULD ALC BE A GENERAL METHOD FOR SYNTHETIC VIEWS?

We think that synthetic views are a major need wherever opposing views produce devastation in society. Could ALC be a missing method for construction and education of such views, at least in technologically advanced societies?

Can ALC for instance produce a synthetic view from the liberal-conservative opposing views? It is worth to explore this possibility, too ... ☺

For more info, see an extended form of this flyer at www.agoralab.org

GENERAL ALC MEETINGS: EVERY SUNDAY STARTING WITH 07/25/10, 2 PM.

JOIN US WHEN YOU CAN – TO SEE, LEARN OR BE PART OF THE EXPERIMENT/ DEBATE.

TEL 217 328 5227, LOCATION VERY CLOSE TO BECKMANN INSTITUTE – UIUC.