



10. Blurred text

Reviewer:

Team Romania

Opponent:

Team Kazakhstan - RFMS

Reporter:

Team Georgia

Task of the problem

Printed text is well visible if covered with a piece of transparent film. As the film is lifted, the text becomes blurred and may gradually disappear. What parameters of the film are relevant?

Investigate this phenomenon.

Reporter summary



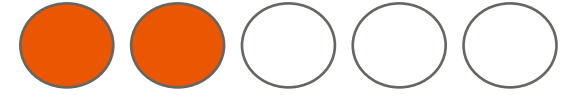
Strong points

- Great optical explanation of the phenomenon
- Theoretical model clearly detailed
- Theoretical graphic analysis and predictions of the experimental setup
- RGB light results (good parameter)
- Link between theoretical model and experiments
- Thickness of the film variation
- Proved understanding of the topic from the discussion

Weak points

- Not presented theoretical analysis of properties of different films (e.g roughness, density, irregularity)
- Used 1 type of film in his experiments (didn't specify using more) - could be relevant
- Didn't specify the environmental conditions (e.g external light)
- Possible errors from the camera?

Opponent summary



Strong points

- Noticed the lack hypothesis
- Good clarifying questions
- Asked about the parameters of the film (density, number of films)

Weak points

- Mentioned the small amount of colors, we believe that RGB is fine - no other alternative colours
- Didn't lead the discussion
- Bad answer to the reviewers question
- More attention could be given to the parameters discussion (density, thickness) - lack in the theoretical part of the reporter

Clashes during the fight

- O: Explain the theoretical model again (the T index)
R: Proved deep understanding of the phenomenon and of the theoretical model
We: Great job done by the reporter
- O: Contrast experiment - small amount of colours
R: Colour didn't cause blurring, RGB is enough
We: Bad statement from the opponent
- O: Name of films that you used
R: I don't know
We: The name is not relevant, but more important would be to mention the difference properties
- O: Did you calculate the density of the film?
R: No, but it's an important parameter
We: Good question posed by the opponent