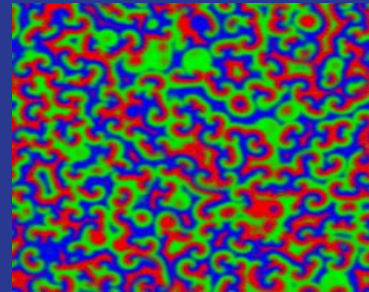




# Opposition - Problem No.14

## Chemical Oscillators

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# Reporter's Theory - Pros & Cons

1. Sufficient theoretical support of the results.
2. Included some relevant parameters.
3. Presence of visual aid (video/photos/graphs)
4. Really interesting conclusions.

1. Missed important variables like the temperature of the solution, the concentration of the ingredients.
2. Not sufficient theoretical support to justify the results.
3. Lack of the reference to the Possible Errors.
4. Did not refer to some crucial definitions.

# Experiment - Pros & Cons

1. Well conducted experiments.
2. Clear experimental set-up.

1. Hypothesis didn't exist.
2. Not enough parameters tested.
3. No possible errors explained.
4. Not enough data presented.



# Conclusions

1. Well-defined almost all of the relevant theory.
2. Didn't mention the importance of the the solution temperature and of the stirring of the solution.
3. Experiments were properly conducted and shown.
4. Causes of errors & errors themselves in the measurements have not been explained.
5. Not clear how conclusions are justified by the experimental results.
6. No hypotheses were included

# Suggestions for further improvement

1. Add hypotheses
2. Test more parameters
3. Add the definition of what is a chemical oscillator.
4. Explain the reasons behind your errors in your measurements.
5. Perform more experiments in order to make your experiment even more valid.
6. Add error bars in the graphs
7. Examine the role of the solution temperature to the outcome.



YOU **ALL**

FOR

YOUR ATTENTION