



Problem №3

“Matches on fire”

Opposition



Important factors:

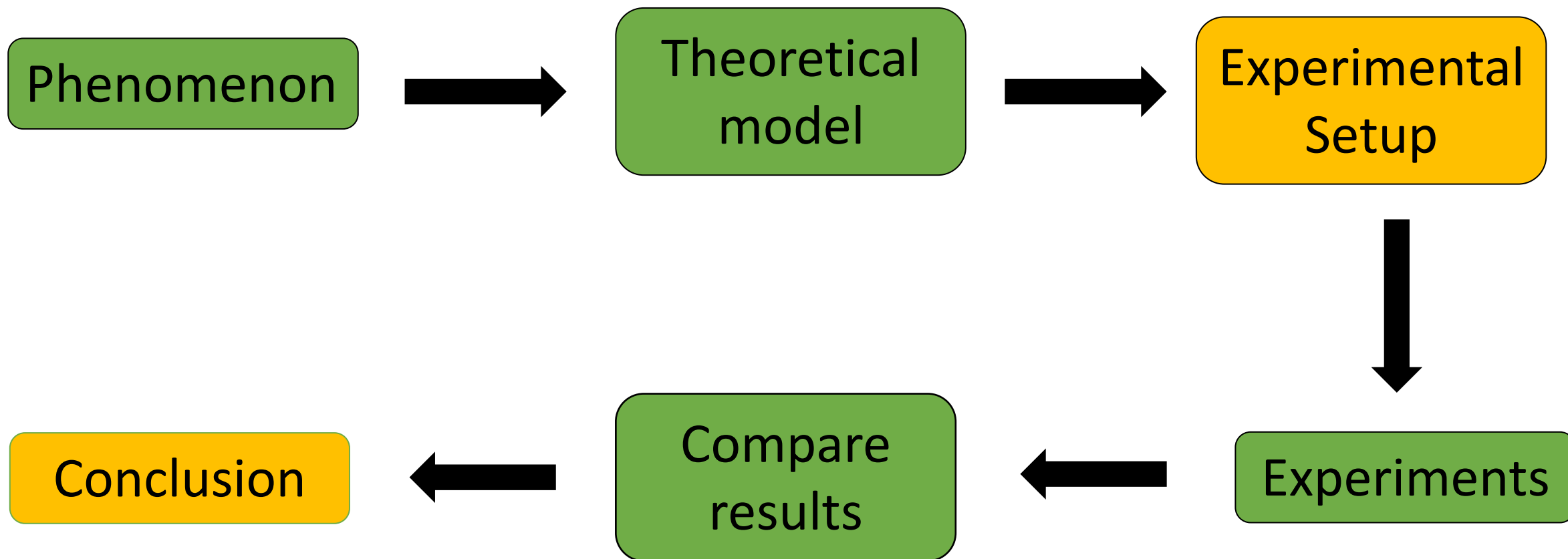
- **Controlled environment**
- **Match Type**
- **Distance between matches**
- **Heat loss**

Problem statement:

When the outermost match in a regular array of matches is lit, the following matches ignite one by one. Investigate the parameters that determine the speed for such a fire wave.

Opponent : Aleksandre Gvaramia

General evaluation of Report:



 Good

 Normal

 Needs Improvement



Reporter:

Strengths

- Phenomenon:
 - ✓ good explanation
 - ✓ simulations
- Theoretical model:
 - ✓ many and important formulas
- Experiments:
 - ✓ He has done many experiments:
 - Changed distance between matches
 - Changed type of matches
 - Calculated velocity changing
 - Calculated errors
- Comparison:
 - ✓ He compared experimental results to theory
- Other:
 - ✓ He Answered questions well
 - ✓ He knew topic well

Weaknesses

- Phenomenon:
 - ✓ Didn't said how rubber bands were fixed.
- Theoretical model:
 - ✓ he didn't explain formulas well.
- Experiments:
 - ✓ He didn't explained how he has calculated errors
 - ✓ He hasn't calculated errors.
 - ✓ Didn't explained diagrams well.
- Other:
 - ✓ He didn't answered questions well



Discussion:

- Distance between matches (between edges or centers)
- Heat loss
- Critical distance
- Effect then match bends ?
- Diagram/Theory explanation



Thank you for
your attention!



Opponent:

Strengths

- Quick Questions:

- ✓ many and important questions:
 - Asked about...
 - Asked about...

- ✓ s

- Theoretical model:

- ✓ many and important formulas

- Experiments:

- ✓ He
 - Changed number of rubber bands
 - Changed light power

- He

- He

Weaknesses

- Quick Questions:

- ✓ few and unimportant questions:
 - Didn't Asked about...
 - Didn't Asked about...

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- ✓ At

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Discussion:

Discussion topics:

- Enter
- Enter
- Enter

Opponent:

- Enter
- Enter
- Enter

Reporter:

- Enter
- Enter
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Reviewer:

- Enter
- Enter
- Enter

