

Problem №6

“Ship wakes ”

opposition

Important factors:

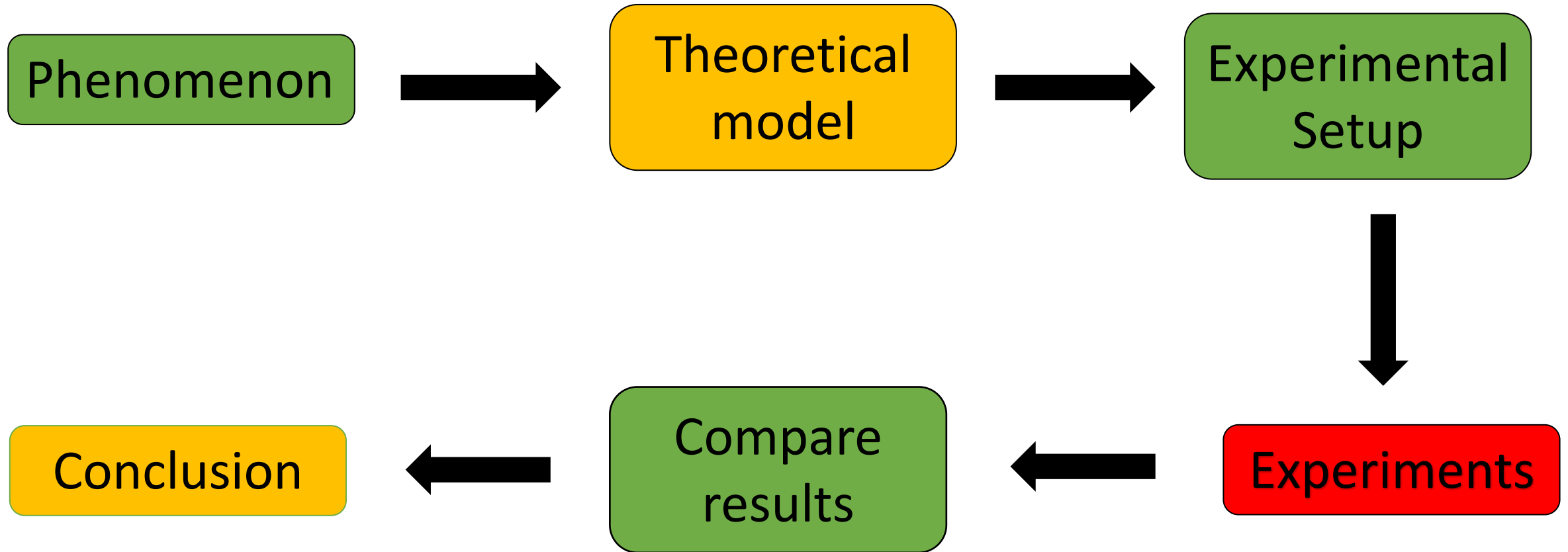
- wave velocity
- Speed of ship
- Shape of ship
- Wave type

Problem statement:

The wave pattern produced by a ship moving on the water is visually similar to a Mach cone and depends on various parameters. Investigate the effect.

opponent : Giorgi Papidze

General evaluation of Report:



 Good

 Normal

 Needs Improvement



Reporter:

Strengths

- Phenomenon:
 - ✓ Mach cone
 - ✓ dispersion
 - ✓ She used simulations
- Theoretical model:
 - ✓ Many and important formulas
 - ✓ Capillary waves
 - ✓ Gravity waves
- Experiments:
 - ✓ He has done experimental models
 - Conducted in the sea and also in the container
 - She used google earth for precise results.
- Comparison:
 - ✓ She compared experimental results to theory
- Other:
 - ✓ She knew topic very well

Weaknesses

- Phenomenon:
 - ✓ Didn't explain exactly why does this waved produced.
- Theoretical model:
 - ✓ She didn't explain formulas well
- Experiments:
 - ✓ Didn't explained diagrams well
 - ✓ Did not explained the errors
 - ✓ Experiments were poor
- Other:
 - ✓ SHe didn't Answered questions well



Discussion:

- Shape and depth of ship
- Explain deep and shallow water meaning(if object is a match)
- Error bars
- Explain theory
- Critical velocity
- Freud number





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...

- ✓ s

- Th

- ✓ At

- Exp

- ✓ He

- g



Discussion:

Discussion topics:

- Enter
- Enter
- Enter

Opponent:

- Enter
- Enter
- Enter

Reporter:

- Enter
- Enter
- Enter

Reviewer:

- Enter
- Enter
- Enter

