



Opposing a report on the problem №25

Reporter: team of Croatia

Opponent: Nazarenko Liza of team «Uranium-239»

International Young Naturalists' Tournament 2020

Formulation of the problem

Pros

Targets were split correctly

Hypothesis was formulated clearly

Cons

Theory

Pros

There were correct theoretical predictions

Forces were placed correctly

Cons

The process was described using physical equations

Scheme of the setup was not shown

The form of pile was not investigated (why does it look this way)

Conducting research

Pros

Method is correct and profound

A sufficient number of parameters were investigated (height/diameter)

Results were presented clear and vivid

Enough measurements were made (plots were here)

Cons

No formulas to improve plots

No comparing of theory and experimental

Analysis of results obtained

Pros

Nice experimental data processing (plots, tables, diagrams)

It is clear where to go next

Cons

Conclusions are not consistent

The results are adequate to theoretical predictions

Structure and slides

Pros

The report was nicely structured

Slides were neat and beautiful

Cons

Personal impression

Pros

The aims stated are interesting

The setup is inventive

The speech was understandable

The idea was correct

Cons

The results aren't trivial

Thanks!

To discuss

Why the powder is pouring?

What forces are working in this process?

Are all the factors involved in this process constant?

Can the form of the container affect the pouring?

How does the mass/volume/density affect on form / height of the pile?

How does the angle between the container and the table affect on form / height of the pile?

Thanks again!

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