Mihnea vs William Switch

Judge View | Tree View | List of Debates | Hide notes | Side: None | Phase: **Make Recursion Payments** Remaining: **0:06**

At root

0 Q (H): A train is coasting around a large circular track. It is then switched to a smaller circular track. How does its speed change? Assume no friction.

H: It will slow down a bit. This in many cases won't even be noticeable.

D: I'm uncertain given the information that I have whether the train will slightly slow down, stay at the same speed, or maybe even slightly speed up

Notes

Q: Does the train gain kinetic energy?

H: No

D: No, 85%

1 Payment: H D None Recurse

Notes

Q: As the train moves to the smaller track, does it gain rotational energy?

H: Yes, 99.3%

D: Yes, 90%

2 Payment: H D None Recurse

Notes

Q: Does the train lose kinetic energy, other than via an increase in its rotational energy?

H: No

D: No, 85%

3 Payment: H D None Recurse

Notes

Q: Is the kinetic + rotational energy of the train conserved as the train moves between tracks?

H: Yes, 99.3%

D: Yes, 80%

4 Payment: H D None Recurse

Notes

Q: Is the increase in rotational energy generally small, and in many cases not noticeable?

H: Yes

D: Yes, 90%

5 Payment: H D None Recurse

Q: If the train gains rotational energy and kinetic + rotational energy is conserved, then what happens to the speed of the train?

H: It decreases

D: It decreases

6 Payment: H D None Recurse

Notes

Notes

Q If I'm right about claims 1, 3 and 5, is it true that the train can't speed up and in fact it slows down a bit, and in many cases by a non-noticeable amount?

H Yes D

7 Payment: H D None Recurse

Notes By noticeable I mean an average human would detect the change in speed with the naked eye

Q Meta-debate: Given the questions and answers in this round, which is the better answer to the question?

H It will slow down a bit. This in many cases won't even be

D I'm uncertain given the information that I have whether the train will slightly slow down, stay at the same speed, or maybe even slightly speed up

9 Payment: H D None Recurse

Notes