

Kevin vs William Switch

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List of Debates

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Side: None

Phase: **Make Recursion Payments** Remaining: 1:11

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, and assume the train is a point mass

H

Speed does not change (by any noticeable amount, say $>1/1000$ of train's speed)

D

It's unclear, it could slightly decrease or it could stay the same

Notes

Q

Does conservation of energy apply to the train-rails system?

H

Yes

D

Yes

1 Payment: ☐ H ☐ D ☐ None ☒ Recurse

Notes

Q

How likely is it that the train's speed would not change by a noticeable amount?

H

>95%

D

75%

2 Payment: ☐ H ☐ D ☐ None ☒ Recurse

Notes

Q

Is the earth so massive as to effectively stop the rails from gaining kinetic energy?

H

Yes

D

98% Yes

3 Payment: ☐ H ☐ D ☐ None ☒ Recurse

Notes

Q

How likely is it that the train's speed would change by a noticeable amount?

H

<5%

D

25%

4 Payment: ☐ H ☐ D ☐ None ☒ Recurse

Notes

Q

If energy is conserved between the train and rails & the rails do not change in energy, does the train retain constant kinetic energy (and thus speed)?

H

Yes

D

75% Yes

6 Payment: ☐ H ☐ D ☐ None ☒ Recurse

Notes

Q

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

H

Speed does not change (by any noticeable amount, say $>1/1000$ of train's speed)

D

It's unclear, it could slightly decrease or it could stay the same

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Payment: H ☐ D ☐ None ☒

Recurse

Notes