

0 Question: 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.

A1: D: Its speed stays exactly unchanged

A2: H: To a good approximation, its speed stays the same. In some situations it may slow down.

Arguments for A1

1 Question: In all situations, the track never exerts a force that opposes the train's direction of motion

A1: D: 95%

A2: H: 50%

Arguments for A2

No arguments

2 Question: Conditioned on 1=Yes, its speed always stays exactly unchanged

A1: D: 95%

A2: H: 50%