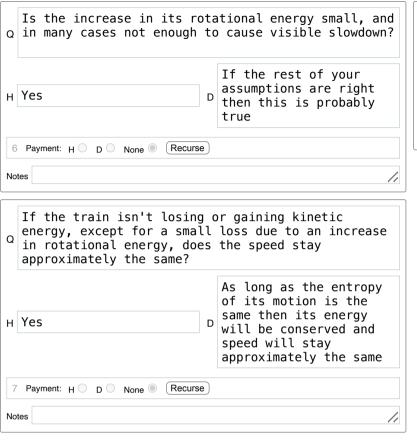
Switch Beth:D Mihnea:H

<u>Judge View</u> <u>Tree View</u> List of Debates	Hide notes Side: None Phase: Make Argument Remaining: 10:00
At	root
A train is coasting around a large circular track does its speed change? Assume no friction.	. It is then switched to a smaller circular track. How
The speed will stay approximately the same. H Sometimes a small slowdown might be detectable with the naked eye.	It's unclear; modeling the problem in different ways gives different answers; it may slow down or speed
Notes	
Is there anything giving the train kinetic energy?	If we consider the earth to be stationary, does one reasonable model suggest the train will slow down?
H No It's unclear (the rotation of the earth might be)	Yes, but the slowdown is small
2 Payment: H O D None Recurse	Notes Recurse Recurse this is the model based on 'trains always slow down on a curved track, the tighter the curve the more they slow down'
Is the train losing kinetic energy, other than via an increase in its rotational energy?	If we model the train in its rotating reference frame, does the coreolis effect suggest it speeds up?
H No It's unclear (the rotation of the earth or the effect of the curved track on the wheels might be slowing	I think an increase is impossible, except maybe to an insignificant amount
it down) 5 Payment: H D None Recurse	Notes Beth means a detectable, significant effect. Planning to argue something like 'from the train's perspective it's on a rotating surface', and then 'when something's on a rotating surface it's subject,



ָ	Do we have a good we reasonable models a predicting the train	way to tell which of several are the most useful for actually in's behavior?
1	Yes	D No
1	5 Payment: H O D None	Recurse
lot	tes	