A1: Its speed does not change				A2: It's unclear, different models suggest its speed might increase or decrease or stay the same		
Arguments for A1			Arguments for A2			
Question: If nothing interacting with the train changes its energy, does the train's energy remain constant?			2	Question: Can we view the situation in a rotating reference frame, where the frame is rotating at the same rate as the train is initially traveling round the track?		
A1: Yes		A2: Yes, very likely		A1: Yes	A2: Yes	
Question: If the train's energy remains constant, does the train's velocity remain constant?			4	4 Question: In a rotating reference frame, does the speed of the train increase in some circumstances and decrease in others?		
A1: Yes Question: Does anyth change in energy?	ing that interac	A2: Yes, very likely ts with the train (e.g. the rails)		A1: Unsure, but these speed changes would not appear in ar inertial reference frame	A2: Probably	
A1: No		A2: The earth might change in energy		Question: Do other models (conservation of angular momentum in a non-rotating reference frame) suggest its speed increases?		
				A1: No, conservation of angular momentum does not apply	A2: Yes, although it's not clear whether this conservation law actually applies to this system	
		7		servation of energy in a non-rotating sed stays unchanged, similarly strongly		
				A1: Yes	A2: Yes, although it's not clear whether this conservation law actually applies to this system	