

LTL vs. CTL

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Dear all,

Let f be a CTL formula and g an LTL formula (both without past modalities). Assume that there is an infinite transition system T (in which each state has a successor) that separates f and g , i.e. T is a model of f , but not of g , or T is a model of g , but not of f . Is there a finite transition system (in which each state has a successor) that separates g and f ?

Any ideas are welcome.
Thanks and best regards
Sasha.