



•











EECS 124, UC Berkeley: 7

















Bisimulation between FSM and Hybrid System (HS) Given: Suppose the FSM M is obtained by partitioning up the continuous state space of the HS H into regions (e.g. rectangles) Let the partition be P : $\mathbb{R}^2 \rightarrow \mathbb{Q}$ Ο Then M bisimulates H if: 1. If P(x) = P(y), then points x and y are observationally equivalent 2. If P(x) = P(y), then for every x' reachable from x, there is a y' reachable from y s.t. P(x') = P(y')and vice-versa EECS 124, UC Berkeley: 16





