Input parameters (black lines) **X1 X2** p model IK BayesianMS 0.09765625 causal strengths 0.05859375 **X1 X2** 0.0234375 0.5 0.0703125 0.5 0.1171875 0.0703125 bias 0.5 0.140625 baserates 0.25 0.25 0.25 0.421875 mean sim joint distr state **X1** Υ **X2** р nChains 0.14777692

input joint distr

betavar	

meanChainlen

- - 0.05993846 0.02432308 0.06381538 0.11762308 0.06343077 0.12037692 0.40271538

X1 X2 p model IK BayesianMS 1 1 0.09765625 1 causal strengths 1 0 0.05859375 1 **X1 X2** 1 0 1 0.0234375 0.5 0 0 0 0.0703125 0 0.5 0 0 1 0.1171875 0 1 0 0 0 1 0 0.0703125 bias 0.5 0 0.140625 0 1 baserates 0.25 0.25 0.25 0 0 0.421875 0 mean sim joint distr state X1 Y X2 p

input joint distr

nChains 10000

Input parameters (black lines)

betavar 1	10000	1	1	1	1	0.14777692
		2	1	1	0	0.05993846
	3	1	0	1	0.02432308	
	4	1	0	0	0.06381538	
		5	0	1	1	0.11762308
	1	6	0	1	0	0.06343077
		7	0	0	1	0.12037692
		8	0	0	0	0.40271538

meanChainlen







