





Path Refinement state reduction on random DPAs with three colors and  $|\Sigma|=4$ . 0.7 Relative number of removed states 0.6 0.5 0.4 0.3 0.2 0.1 0.0 1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00 Number of SCCs in the original automaton

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Path Refinement state reduction on random DPAs with three colors and  $|\Sigma|=4$ . 120 100 Number of automata 80 60 40 20 0.000 0.075 0.150 0.225 0.300 0.375 0.450 0.525 0.600 0.675 0.750

Relative number of removed states