## Failure Probabilty Estimation 10<sup>-8</sup> Exact MCTS Or MCTS CO MC Failure Probability 10<sup>-10</sup> 10<sup>-12</sup> 10<sup>-14</sup> 10<sup>-16</sup> 10<sup>3.0</sup> 10<sup>3.5</sup> 104.0 10<sup>4.5</sup> Number of Samples Number of Failure Samples vs. Total Samples 2.0 Number of Failure Samples MCTS Or MCTS CO MC 1.5 1.0 0.5 0.0 10<sup>3.0</sup> 10<sup>3.5</sup> 10<sup>4.0</sup> 10<sup>4.5</sup> Number of Samples