Nearest Neighbor Heisenberg, n=10, t=20 Empirical (Parity PF2) Tight bound (Parity PF2) 10<sup>3</sup>  $10^{1}$ 10<sup>-3</sup> 10<sup>-5</sup>  $10^{1}$ 10<sup>4</sup>  $10^{2}$  $10^{3}$  $10^{5}$