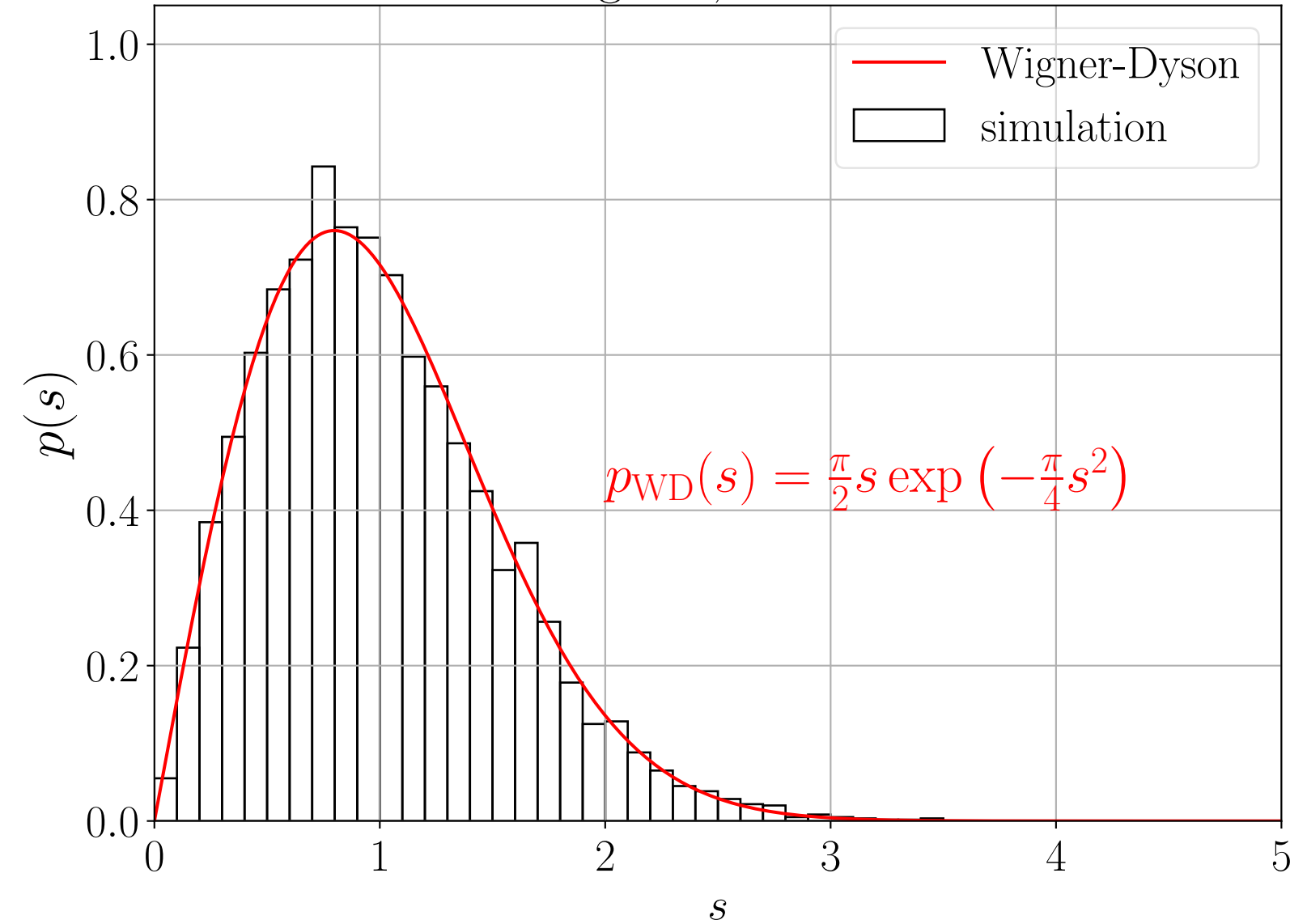tJ model, examplary ergodic and MBL level statistics, $L = 13, N_h = 1, N_u = 6$

Ergodic, $W = 1$

MBL, $W = 8$

$p_{\mathrm{WD}}(s) = \frac{\pi}{2} s \exp\left(-\frac{\pi}{4} s^2\right)$

$p_{\mathrm{P}}(s) = \exp\left(-s\right)$

Wigner-Dyson

simulation

Poisson

simulation