## 15Er 1.00 $egin{align} ho_{n_z=1}(r) \ ho_{n_z=0}(r) \ ho_{n_z=0} \ ho_{n_z=1} \ \end{array}$ 0.75 0.50 0.25 0.00 -100 100 -2000 200 x (µm) Lattice depth (Er) -5 -10 $egin{aligned} U_{n_z \,=\, 0}(r)\ U_{n_z \,=\, 1}(r)\ U(r) \end{aligned}$ -15-200 100 -1000 200

x (µm)