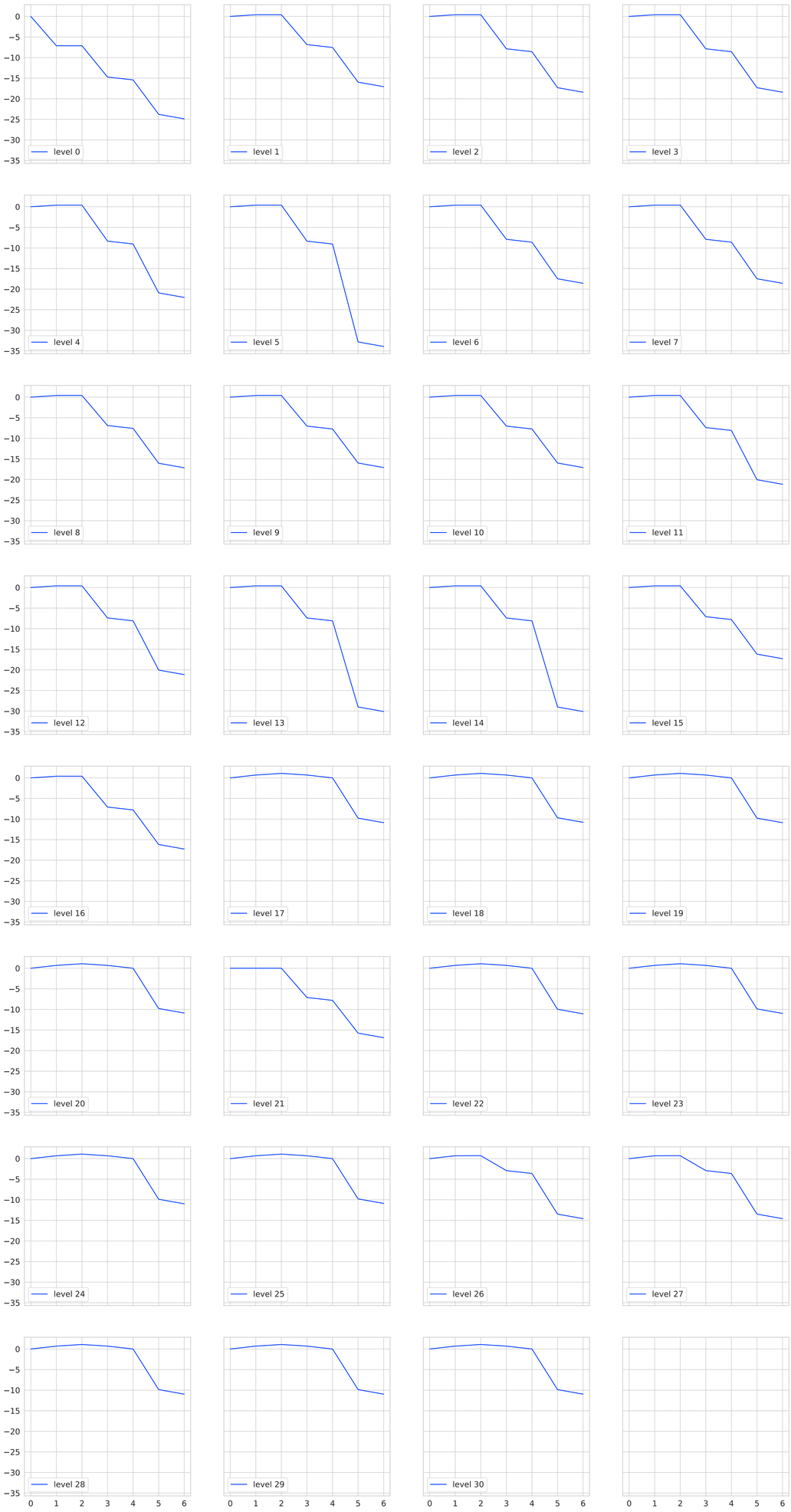Higher pluckers for the lowest energy states, L=6, U=0.1