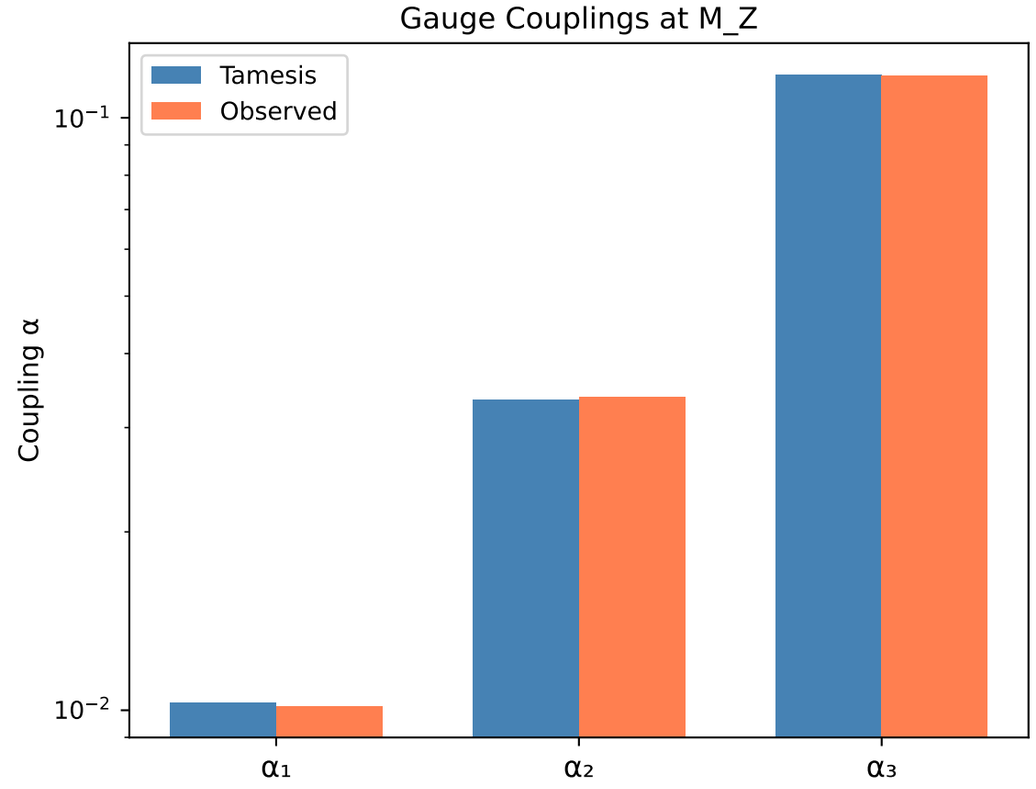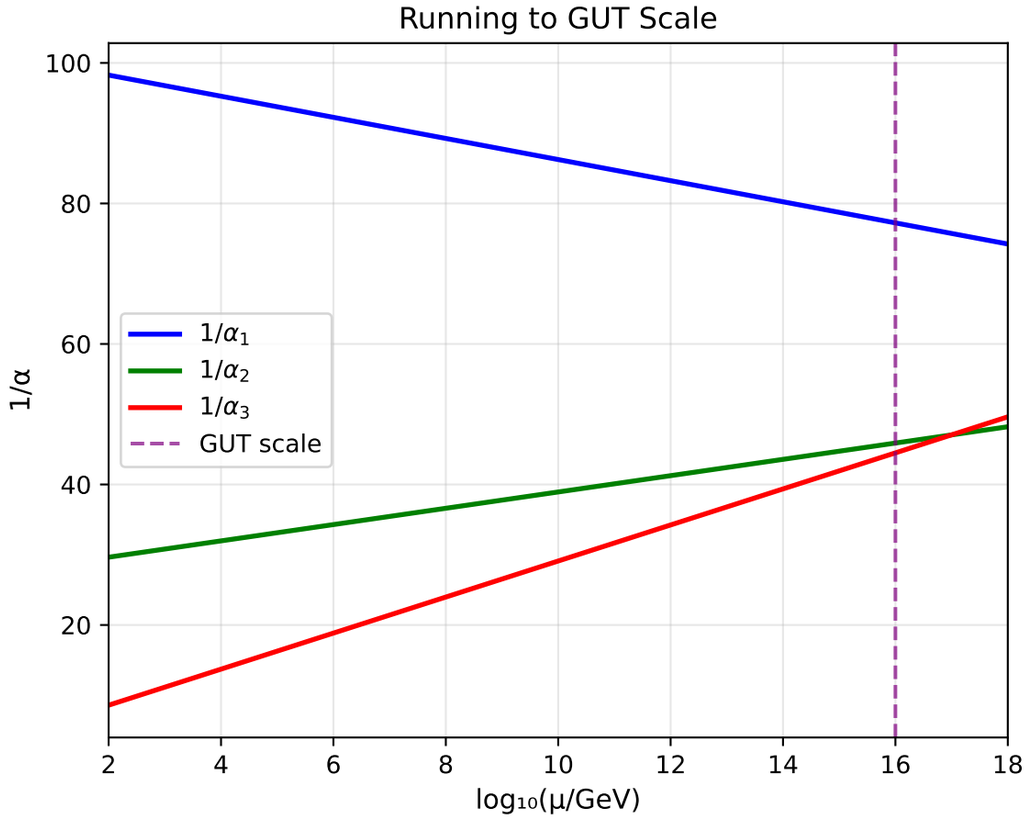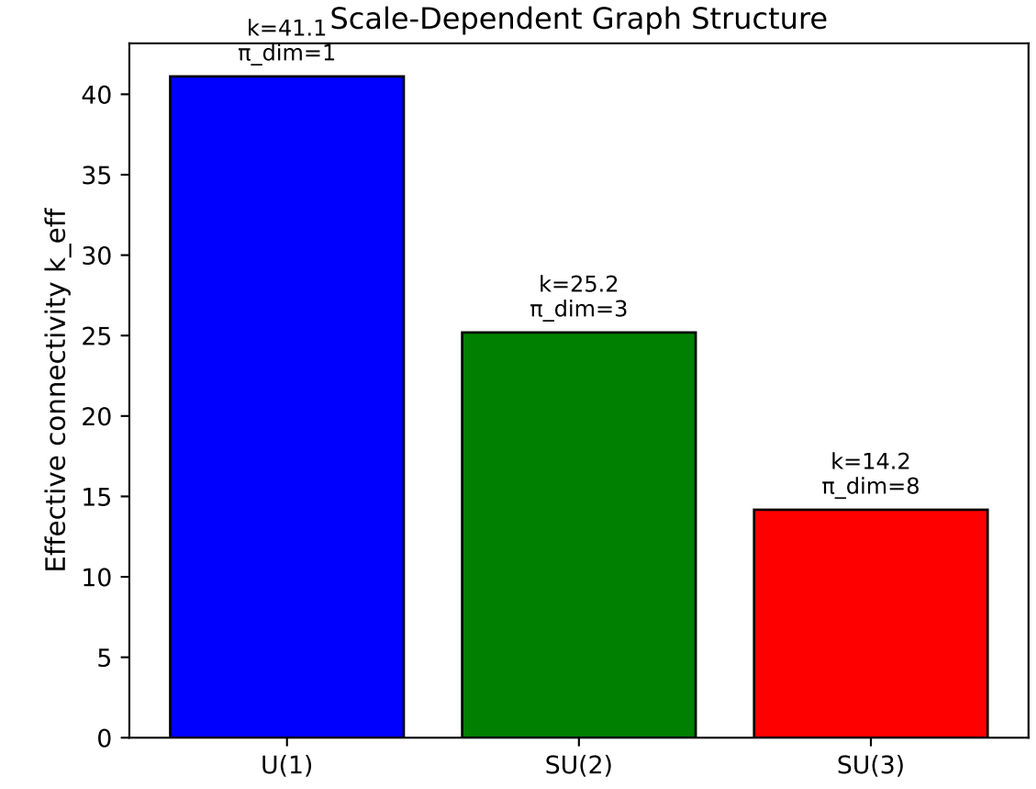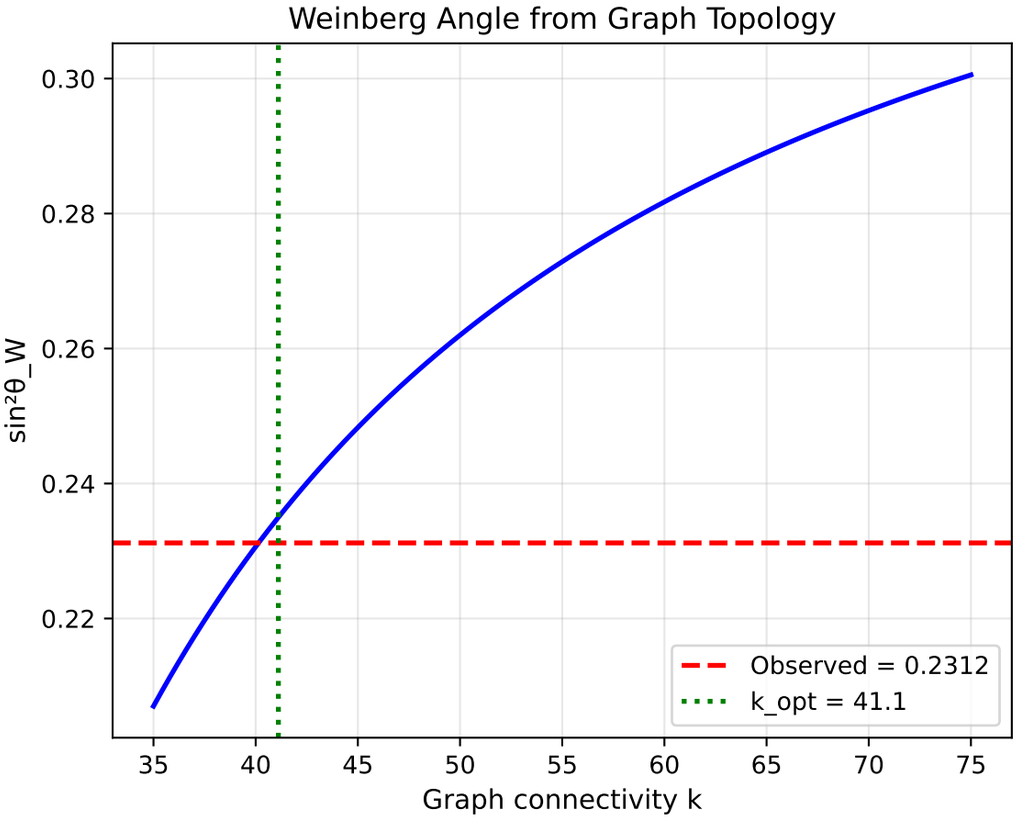Gauge Couplings from Tamesis Kernel