p=1.8, o=1, ω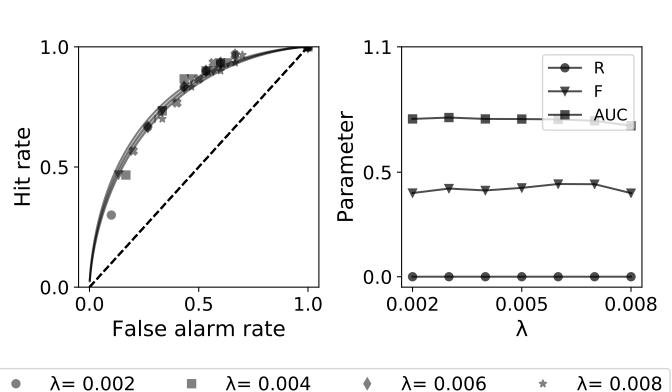=0.18