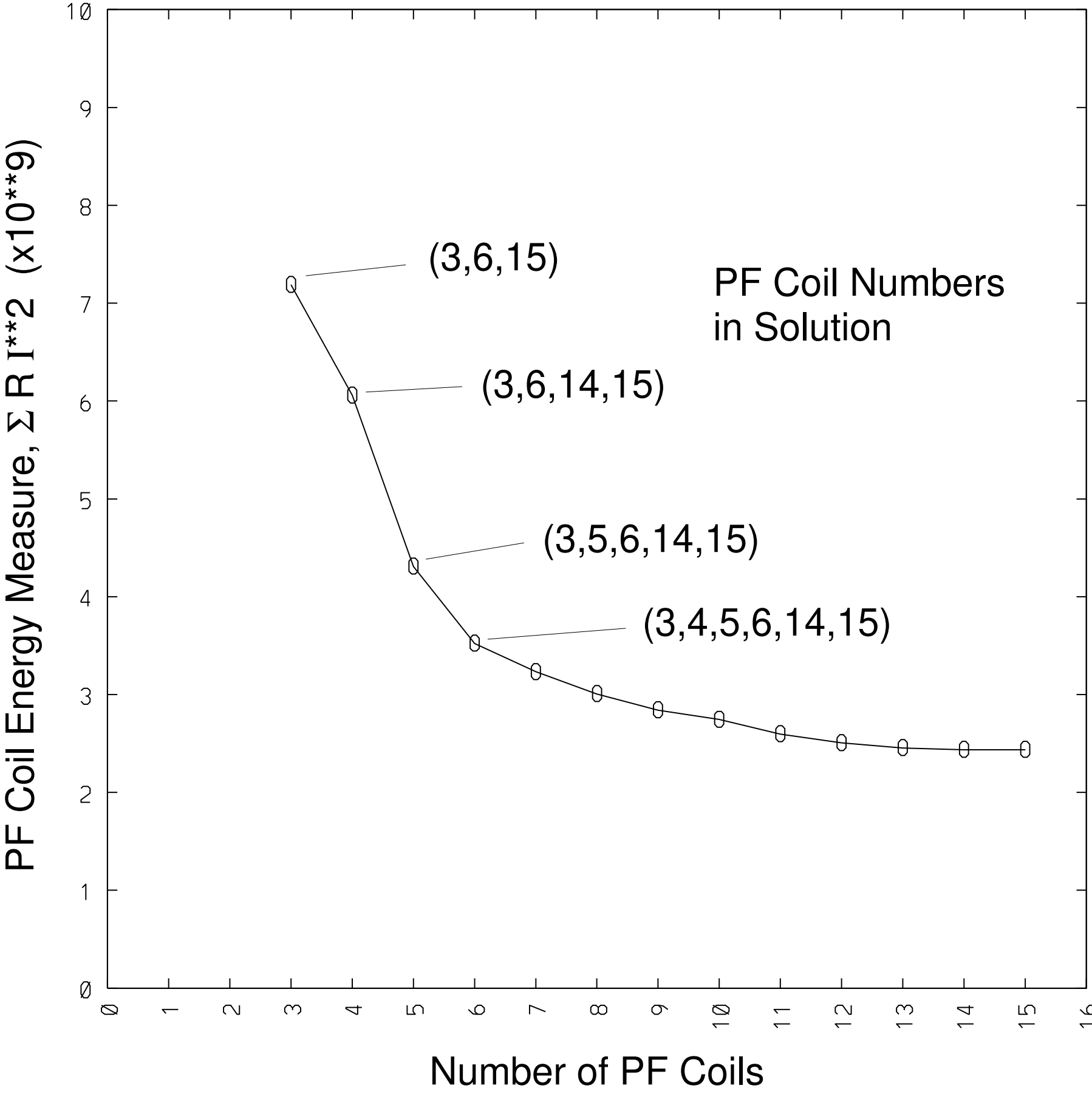
A = 1.6, I_p = 32 MA, R = 3.29 m, a = 2.06 m

κ = 3.35, δ = 0.53, β_p = 1.95, l_i = 0.175