SNPS – d=2, s≈0.890133, λ≈111, m̂≈0.0000, J_val≈1.844117e-02
RMSEtr = 1.4290, RMSEvl = 0.1358, RMSEts = 0.8639, RMSEtv = 1.2395
RMSEWtr = 0.8889, RMSEWvl = 0.1447, RMSEWts = 1.0790, RMSEWtv = 0.672