

IBM –  $d=2$ ,  $s \approx 0.954181$ ,  $\lambda \approx 3.46e+03$ ,  $m \hat{=} 0.0000$ ,  $J_{\text{val}} \approx 3.475792e+00$

$\text{RMSE}_{\text{tr}} = 1.7594$ ,  $\text{RMSE}_{\text{vl}} = 1.8643$ ,  $\text{RMSE}_{\text{ts}} = 5.4624$ ,  $\text{RMSE}_{\text{tv}} = 1.7862$

$\text{RMSE}_{\text{Wtr}} = 1.6496$ ,  $\text{RMSE}_{\text{Wvl}} = 2.2890$ ,  $\text{RMSE}_{\text{Wts}} = 6.0800$ ,  $\text{RMSE}_{\text{Wtv}} = 1.778$

