Residual Convergence (wang2) GMRES(30) GMRES-E(26, 4)  $10^{-1}$ LGMRES(26, 4)  $10^{-3}$ 10<sup>-5</sup>  $\frac{||r_n||_2}{||r_0||_2}$  $10^{-7}$  $10^{-9}$  $10^{-11}$ 20 60 80 40 100 0 **Restart Iteration**