Coverage, xi=0(crct xi), interactions=TRUE, mis\_Y=2, mis\_PS=0, N=2000  $\pi_{as}=0.75$  $\pi_{\text{as}}=0.5$ 1.00 0.75 - $\pi_{\text{pro}}$  : High 0.50 -0.25 -Coverage 00.0 00.1 0.75 - $\pi_{pro}$  : Low 0.50 -0.25 -0.00 3 **Number of Covariates** Mahal cal Mahal PS Mahal cal: OLS Mahal cal: WLS Mahal: WLS PS: WLS

Coverage, xi=0.05(crct xi), interactions=TRUE, mis\_Y=2, mis\_PS=0, N=2000  $\pi_{as} = 0.75$  $\pi_{\text{as}}=0.5$ 1.00 0.75 - $\pi_{\text{pro}}$  : High 0.50 -0.25 -Coverage 00.0 00.1 0.75 - $\pi_{pro}$  : Low 0.50 -0.25 -0.00 3 **Number of Covariates** Mahal cal Mahal PS Mahal cal: OLS Mahal: WLS PS: WLS Mahal cal: WLS

Coverage, xi=0.1(crct xi), interactions=TRUE, mis\_Y=2, mis\_PS=0, N=2000  $\pi_{\text{as}}=0.5$  $\pi_{as}=0.75$ 1.00 0.75 - $\pi_{\text{pro}}$  : High 0.50 -0.25 -Coverage 00.0 00.1 0.75 - $\pi_{\mathsf{pro}}:\mathsf{Low}$ 0.50 -0.25 -0.00 3 **Number of Covariates** Mahal cal Mahal PS Mahal cal: OLS Mahal: WLS PS: WLS

Mahal cal: WLS

Coverage, xi=0.2(crct xi), interactions=TRUE, mis\_Y=2, mis\_PS=0, N=2000  $\pi_{as} = 0.5$  $\pi_{as}=0.75$ 1.00 0.75 - $\pi_{\text{pro}}$  : High 0.50-0.25 -Coverage 00.0 00.1 0.75 - $\pi_{pro}$  : Low 0.500.25 -0.00 3 **Number of Covariates** Mahal cal Mahal PS Mahal cal: OLS Mahal: WLS PS: WLS Mahal cal: WLS

Coverage, 3X, Crct xi, interactions=TRUE, mis\_Y=2, mis\_PS=0, N=2000  $\pi_{as} = 0.5$  $\pi_{as}=0.75$ 1.00 0.75  $\pi_{pro}$  : High 0.50 -0.25 -Coverage 0.75 - $\pi_{pro}$  : Low 0.50 -0.25 -0.00 0.2 0.1 0.2 0.1 Ó 0.05 0.05 Ò ξ Mahal cal Mahal PS Mahal cal: OLS Mahal cal: WLS Mahal: WLS PS: WLS

Coverage, 5X, Crct xi, interactions=TRUE, mis\_Y=2, mis\_PS=0, N=2000  $\pi_{as} = 0.5$  $\pi_{as} = 0.75$ 1.00 0.75 - $\pi_{pro}$  : High 0.50 -0.25 -Coverage 00.00 00.1 0.75 - $\pi_{pro}$  : Low 0.50 -0.25 -0.00 0.2 0.2 0.05 0.05 0.1 ξ Mahal cal Mahal PS Mahal cal: OLS Mahal cal: WLS Mahal: WLS PS: WLS

Coverage, 10X, Crct xi, interactions=TRUE, mis\_Y=2, mis\_PS=0, N=2000  $\pi_{as} = 0.75$  $\pi_{as} = 0.5$ M 0.75  $\pi_{pro}$  : High 0.50 -0.25 -Coverage 0.00 0.75 - $\pi_{pro}$  : Low 0.50 -0.25 -0.00 0.2 0.05 0.05 ξ Mahal cal Mahal PS Mahal cal: OLS Mahal cal: WLS Mahal: WLS PS: WLS