Bias, xi=0(Mis xi), interactions=FALSE, mis_Y=2, mis_PS=2, N=2000 $\pi_{as} = 0.5$ $\pi_{as}=0.75$ 1 0 π_{pro} : High -1 -2 Bias 0 π_{pro} : Low -1-2 3 5 5 10 10 **Number of Covariates** Mahal cal Mahal PS Mahal cal:OLS Mahal cal:WLS Mahal:WLS PS:WLS

Bias, xi=0.05(Mis xi), interactions=FALSE, mis_Y=2, mis_PS=2, N=2000 $\pi_{as} = 0.5$ $\pi_{as}=0.75$ 1 0 π_{pro} : High -1 -2 Bias 1 0 π_{pro} : Low -1 -2 3 5 5 10 10 **Number of Covariates** Mahal cal Mahal PS Mahal cal:OLS Mahal cal:WLS Mahal:WLS PS:WLS

Bias, xi=0.1(Mis xi), interactions=FALSE, mis_Y=2, mis_PS=2, N=2000 $\pi_{as}=0.75$ $\pi_{as} = 0.5$ 1 π_{pro} : High 0 -1 -2 Bias 1 0 $\pi_{\mathsf{pro}}:\mathsf{Low}$ -1 -2 3 5 5 10 10 **Number of Covariates** Mahal cal Mahal PS Mahal cal:OLS Mahal cal:WLS Mahal:WLS PS:WLS

Bias, xi=0.2(Mis xi), interactions=FALSE, mis_Y=2, mis_PS=2, N=2000 $\pi_{as}=0.75$ $\pi_{as} = 0.5$ 1 0 π_{pro} : High -1 -2 Bias 1 0 $\pi_{\mathsf{pro}}:\mathsf{Low}$ -1-2 3 5 10 5 10 **Number of Covariates** Mahal cal Mahal PS Mahal cal:OLS Mahal cal:WLS Mahal:WLS PS:WLS

Bias, 3X, Mis xi, interactions=FALSE, mis_Y=2, mis_PS=2, N=2000 $\pi_{as} = 0.5$ $\pi_{as}=0.75$ 1.0 0.5 π_{pro} : High 0.0 -0.5-1.01.0 0.5 π_{pro} : Low 0.0 -0.5-1.00.2 Ó 0.2 0.05 0.05 0.1 ξ Mahal cal Mahal PS Mahal cal:OLS Mahal cal:WLS Mahal:WLS PS:WLS DL



