Correlated LHCO Example Median and Min/Max of 10 models Optimal CWoLa Data vs. Sim 5 Supervised Supervised Significance Improvement Significance Improvement Optimal CWoLa Data vs. Sim Random Random 0.0 0.2 0.6 8.0 0.6 0.8 1.0 0.4 1.0 0.0 0.2 0.4 Signal Efficiency (True Positive Rate) Signal Efficiency (True Positive Rate) **CWoLa SALAD** 5 Supervised Supervised SALAD Significance Improvement Significance Improvement **CWoLa** Random Random 0 0.2 1.0 0.0 1.0 0.4 0.6 8.0 0.4 0.6 8.0 0.0 0.2 Signal Efficiency (True Positive Rate) Signal Efficiency (True Positive Rate) SA-CWoLa, $\lambda = 0.5$ k-SA-CWoLa, $\lambda = 0.995$ 5 5 Supervised Supervised SA-CWoLa, $\lambda = 0.5$ provement provement k-SA-CWoLa, $\lambda = 0.995$ ····· Random Random Significance Im Significance Im 1.0 0.0 8.0 1.0 0.0 0.2 8.0 0.2 0.4 0.6 0.6 0.4 Signal Efficiency (True Positive Rate) Signal Efficiency (True Positive Rate)