The original sample's Invariant Mass along with mass after selection of XGB (with a cut > 0.9635) before selection XGB 35000 - 400 30000 - 350 - 300 25000 - 250 20000 15000 - 150 10000 - 100 5000 - 50 0.5 0.7 0.8 0.9 0.4 0.6 1.0