Invariant mass distribution for different MF scaling before XGB selection XGB selected signal 27.5% MF, 3.3A GeV/c 27.5% MF, 3.3A GeV/c 56% MF, 3.3A GeV/c 56% MF, 3.3A GeV/c 100% MF, 12A GeV/c 100% MF, 12A GeV/c 10^{4} 10⁶ Counts before selection (log scale)

1

0 DCM-QGSM-SMM, Au+Au @12 AGeV/c; $\frac{1}{0}$ $\frac{1}{0}$ Counts after selection (log scale) 10k events (rescaled x10) DCM-QGSM-SMM, Au+Au @3.3 AGeV/c; 100k events 10¹ 10⁰ 10³ 0.5 0.3 0.6 0.4 0.7 8.0 0.9 1.0 Mass (GeV/ c^2)