reconstructed Λ^0 invariant mass reconstructed K_S⁰ invariant mass 4^{×10}³ $\times 10^3$ number of reconstructed vertices number of reconstructed vertices - Run2017E data Run2017E data ---- background fit ---- background fit PDG Λ^0 mass: PDG K_s mass: total fit — total fit $497.614 \pm 0.024 \text{ MeV}$ 1115.683 ± 0.006 MeV 20 μ : 4.9750E-01 3 μ: 1.1159E+00 A₁: 1.8392E+03 A₁: 1.5390E+04 σ_1 : 3.6270E-03 σ_1 : 1.4096E-03 A₂: 4.2556E+03 A₂: 6.9083E+02 15 σ₂: 9.5395E-03 σ_2 : 4.1926E-03 a0:4.0190E+02 a0: -2.2197E+05 2 a1: 1.2928E+03 a1:3.9006E+05 a2:-1.7059E+05 10 $\frac{\chi^2}{\text{ndof}}$ of fit: 6.40E+00 $\frac{\chi^2}{\text{ndof}}$ of fit: 1.79E+00 5 0.48 0.5 0.54 0.46 0.52 0.56 1.09 1.11 1.13 1.1 1.12 1.14 invariant mass (GeV) invariant mass (GeV)