reconstructed K<sub>S</sub><sup>0</sup> invariant mass reconstructed  $\Lambda^0$  invariant mass  $\times 10^3$  $\times 10^3$ 50 number of reconstructed vertices number of reconstructed vertices Run2017E data Run2017E data background fit ---- background fit PDG K<sub>s</sub> mass: PDG  $\Lambda^0$  mass: total fit total fit 497.614 ± 0.024 MeV 1115.683 ± 0.006 MeV 40 μ: 4.9753E-01 μ: 1.1159E+00 A<sub>1</sub>: 3.1854E+04 A<sub>1</sub>: 2.5350E+03  $\sigma_1$ : 3.6394E-03 σ<sub>1</sub>: 1.3976E-03 A<sub>2</sub>: 8.3631E+03 A<sub>2</sub>: 8.7603E+02 30 σ<sub>2</sub>: 9.2665E-03 σ<sub>2</sub>: 3.9435E-03 a0:5.6559E+02 a0:-1.2804E+03 a1:2.2130E+02 a1: 1.4234E+03 20  $\frac{\chi^2}{\text{ndof}}$  of fit: 1.19E+01  $\frac{\chi^2}{\text{ndof}}$  of fit: 4.19E+00 10 0.48 0.54 1.09 1.1 1.11 1.13 Ŏ.44 0.46 0.5 0.52 0.56 1.12 1.14 invariant mass (GeV) invariant mass (GeV)