Figure 1: This figure shows the invariant mass distributions of charm candidates in 472 pb$^{-1}$ of collision data, in the mode $D^{*0} \rightarrow D^{0}(K\pi^{+})\pi^{0}$, $D^{0} \rightarrow K^{-}\pi^{+}$ for $0.1405 < \Delta M < 0.1425$ GeV/c$^2$. Events are required to contain at least three good tracks to purity the sample with processes of the type $e^+e^- \rightarrow$ hadrons, while rejecting beam induced background, Bhabha scattering, and other low multiplicity background sources. The charged kaon and pion tracks are required to have impact parameters, $|d_0|$ and $|z_0|$ less than 0.5 cm and 3.0 cm respectively. Particle identification criteria $> 0.5$ is applied for $K^-$. The $D^{*}$ candidates are required to have a centre-of-mass momentum of greater than 2.5 GeV/c to select $c\bar{c}$ events. The internal document reference is BELLE2-NOTE-PH-2018-004.
Figure 2: This figure shows the $\Delta M$ distribution of charm candidates in 472 pb$^{-1}$ of collision data, in the mode $D^{*0} \rightarrow D^0 \pi^0$, $D^0 \rightarrow K^- \pi^+$ for $1.855 < M(K\pi) < 1.75$ GeV/$c^2$. Events are required to contain at least three good tracks to purity the sample with processes of the type $e^+e^- \rightarrow$ hadrons, while rejecting beam induced background, Bhabha scattering, and other low multiplicity background sources. The charged kaon and pion tracks are required to have impact parameters, $|d_0|$ and $|z_0|$ less than 0.5 cm and 3.0 cm respectively. Particle identification criteria $> 0.5$ is applied for $K^-$. The $D^*$ candidates are required to have a centre-of-mass momentum of greater than 2.5 GeV/$c$ to select $c\bar{c}$ events. The internal document reference is BELLE2-NOTE-PH-2018-004.