

Figure 1: This figure shows the invariant mass distribution of charm candidates in 472 pb^{-1} of collision data, in the mode $D^{*+} \rightarrow D^0 \pi^+$, $D^0 \rightarrow K^- \pi^+$ for $0.144 < \Delta M < 0.146 \text{ GeV}/c^2$. Events are required to contain at least three good tracks to purify the sample with processes of the type $e^+e^- \rightarrow \text{hadrons}$, 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 to K^- . The D^* candidates are required to have a centre-of-mass momentum of greater than $2.5 \text{ GeV}/c$ to select $c\bar{c}$ events. The internal document reference is BELLE2-NOTE-PH-2018-004.

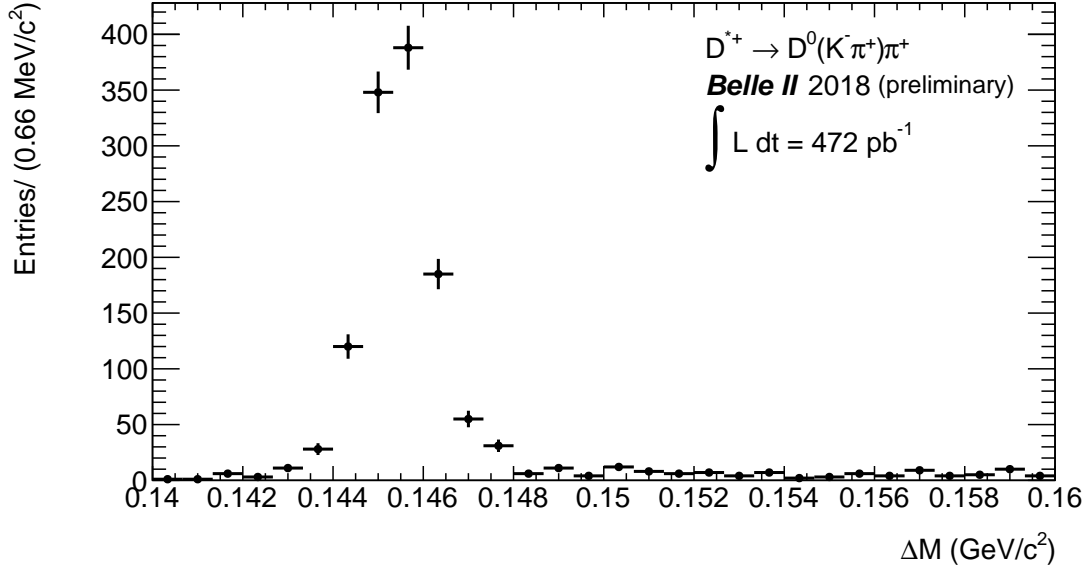


Figure 2: This figure shows the ΔM distribution of charm candidates in 472 pb^{-1} of collision data, in the mode $D^{*+} \rightarrow D^0\pi^+$, $D^0 \rightarrow K^-\pi^+$ for $1.845 < M(K^-\pi^+) < 1.885 \text{ GeV}/c^2$. Events are required to contain at least three good tracks to purify the sample with processes of the type $e^+e^- \rightarrow \text{hadrons}$, 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 to K^- . The D^* candidates are required to have a centre-of-mass momentum of greater than $2.5 \text{ GeV}/c$ to select $c\bar{c}$ events. The internal document reference is BELLE2-NOTE-PH-2018-004.