

Belle Analysis Status

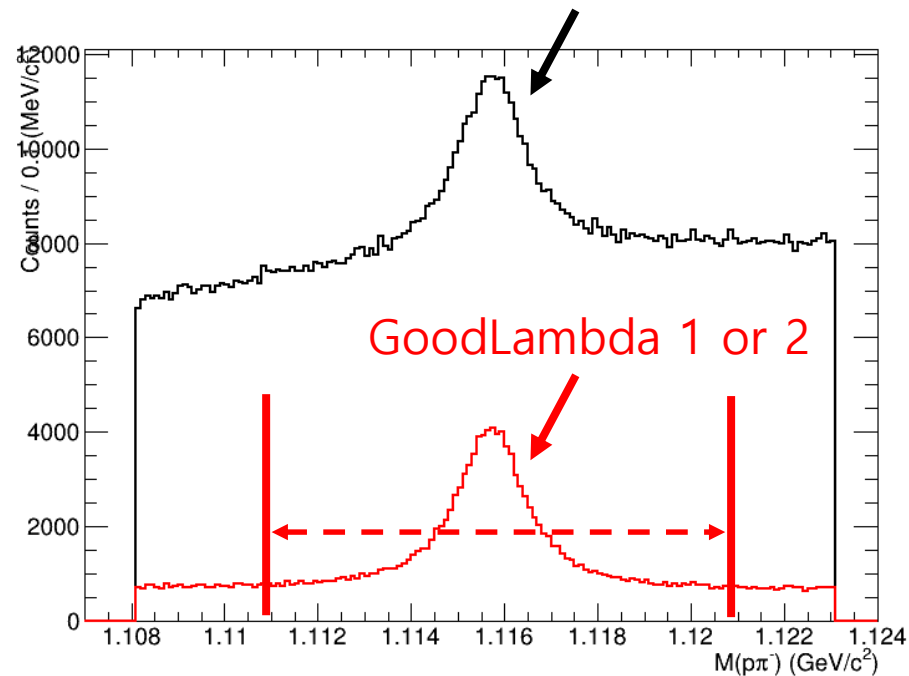
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Events Number Test

- Data sample for this test
 - Only Exp65 ($\sim 49.7 \text{ fb}^{-1}$, $\sim 5\%$ of total data sample)
- Λ Reconstruction
 - Used "Mdst_vee2".

2 and 3 in the vee2 collection



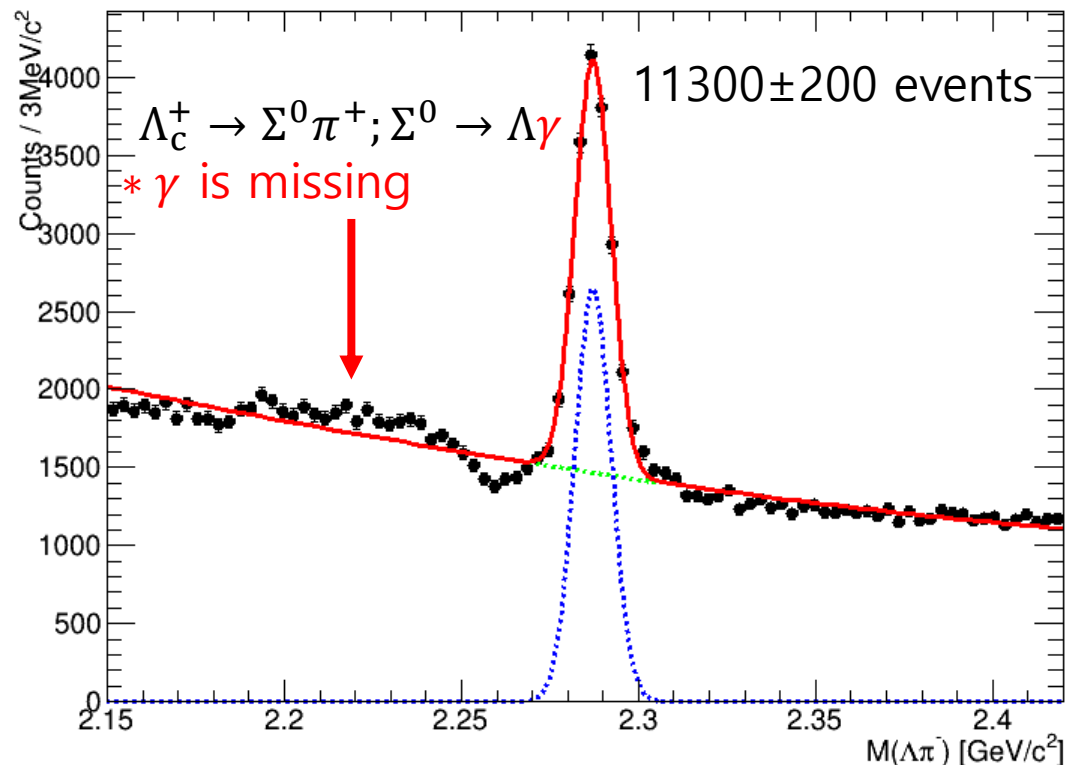
- *Lambda cut condition: 'GoodLambda 1 or 2' and ' $M(p\pi^-)$ in $\sim \pm 5\sigma$ '
 → Mass constraint fit applied.

■ Λ_c^+ Reconstruction

→ Adding one π^+ to the Lambda

π^+ cut condition: $R(\pi|p) > 0.4$, $R(\pi|K) > 0.4$, $R(e) < 0.9$, $|ip_r| < 0.1$ cm, $|ip_z| < 2$ cm, and more than 1 hit for both SVD r-phi and z.

→ Λ_c^+ cut condition: $x_p > 0.5$

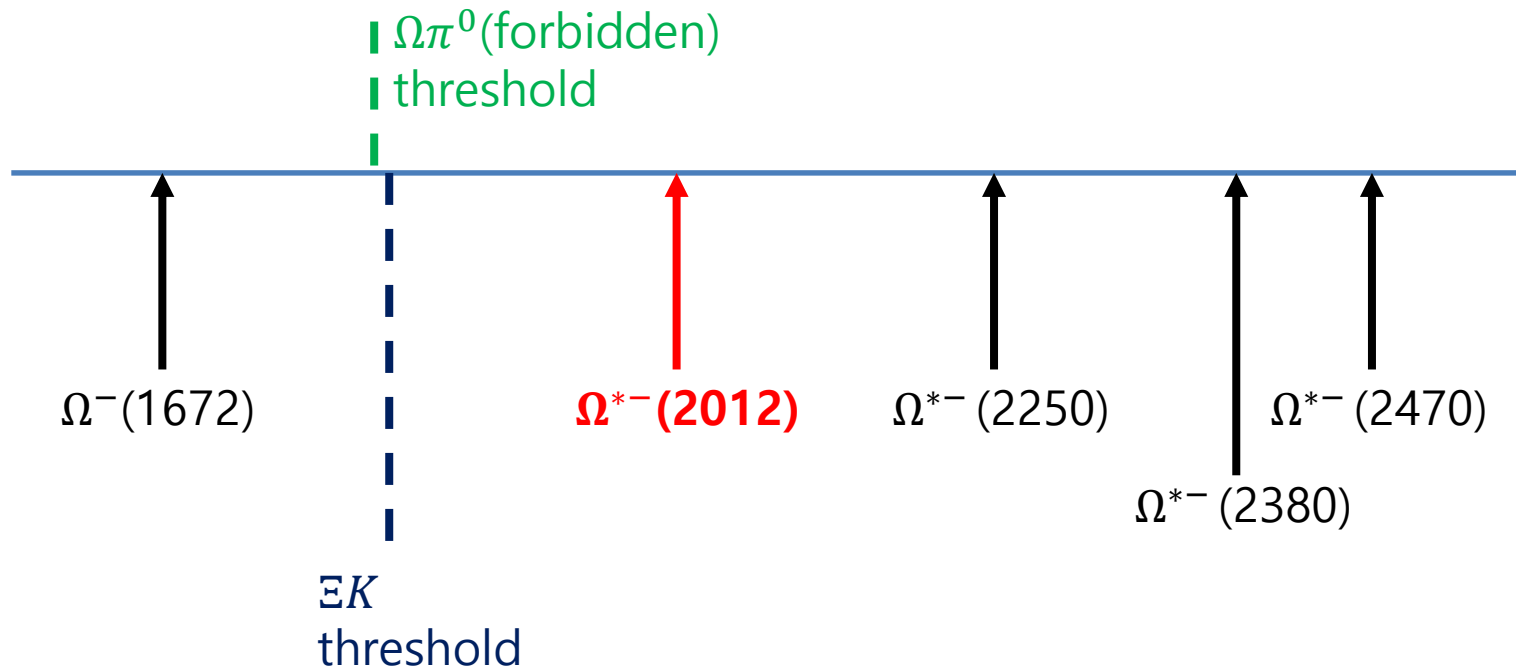


→ Expected yield in total data sample: ~ 230000 events.

■ New results from Belle

#BN1467, $\Omega^{*-} \rightarrow \Xi^0 K^-$ & $\Xi^- K_S^0$

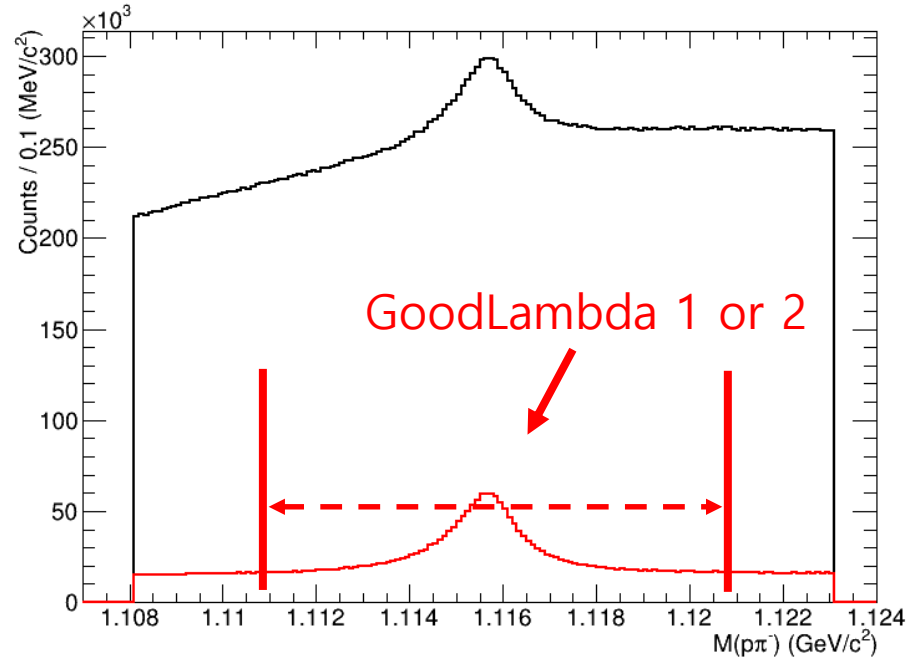
Clear peak at $\sim 2012 \text{ MeV}/c^2$



■ Events number test

→ Data sample: $\Upsilon(1s)$ resonance, $\sim 5.7 \text{ fb}^{-1}$ ($\sim 17\%$ of $\Upsilon(1s, 2s, 3s)$)

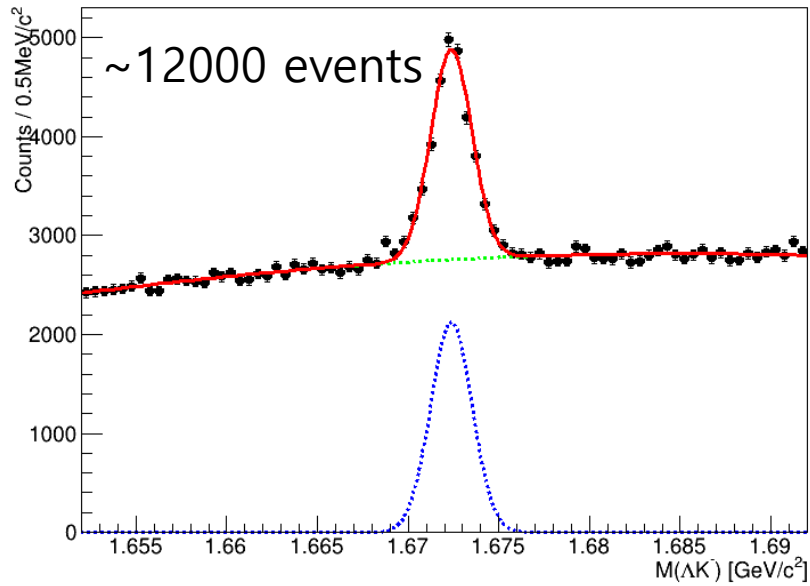
→ Same Lambda selection with Λ_c^+



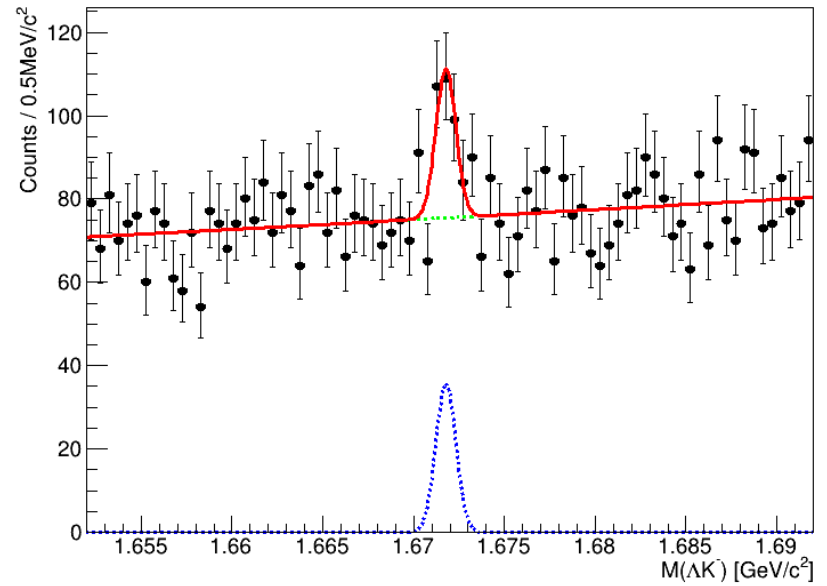
→ Adding one K^- to the Lambda

π^+ cut condition: $R(K|\pi) > 0.9$, $R(K|p) > 0.4$, $R(e) < 0.9$, $|ip_r| < 20.0 \text{ cm}$, $|ip_z| < 20.0 \text{ cm}$, and more than 1 hit for both SVD r-phi and z.

$\Upsilon(1s)$ resonance



$\Upsilon(1s)$ off-resonance



→ $\Omega^- \rightarrow \Lambda K^-$: 60000 events in $\Upsilon(1s, 2s, 3s)$ data.