



BELLE2-NOTE-PL-2021-001

## Approved Plots: $\Upsilon$ dipion transitions in Early Phase 3

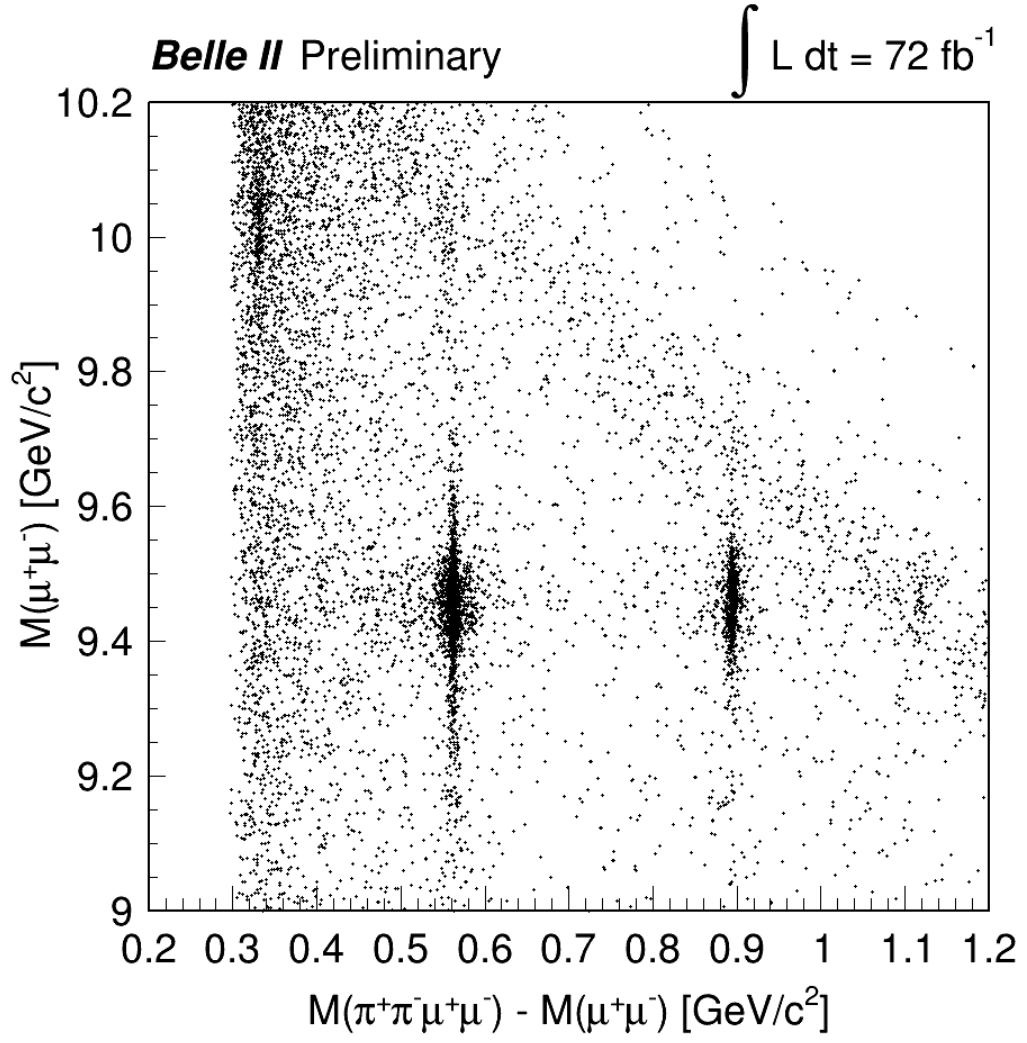


FIG. 1: Plot of  $M(\mu\mu)$  versus  $M(\pi^+\pi^-\mu^+\mu^-) - M(\mu^+\mu^-)$  for  $\Upsilon \rightarrow \mu^+\mu^-$  dipion decays. The clusters of points represent signal transitions.

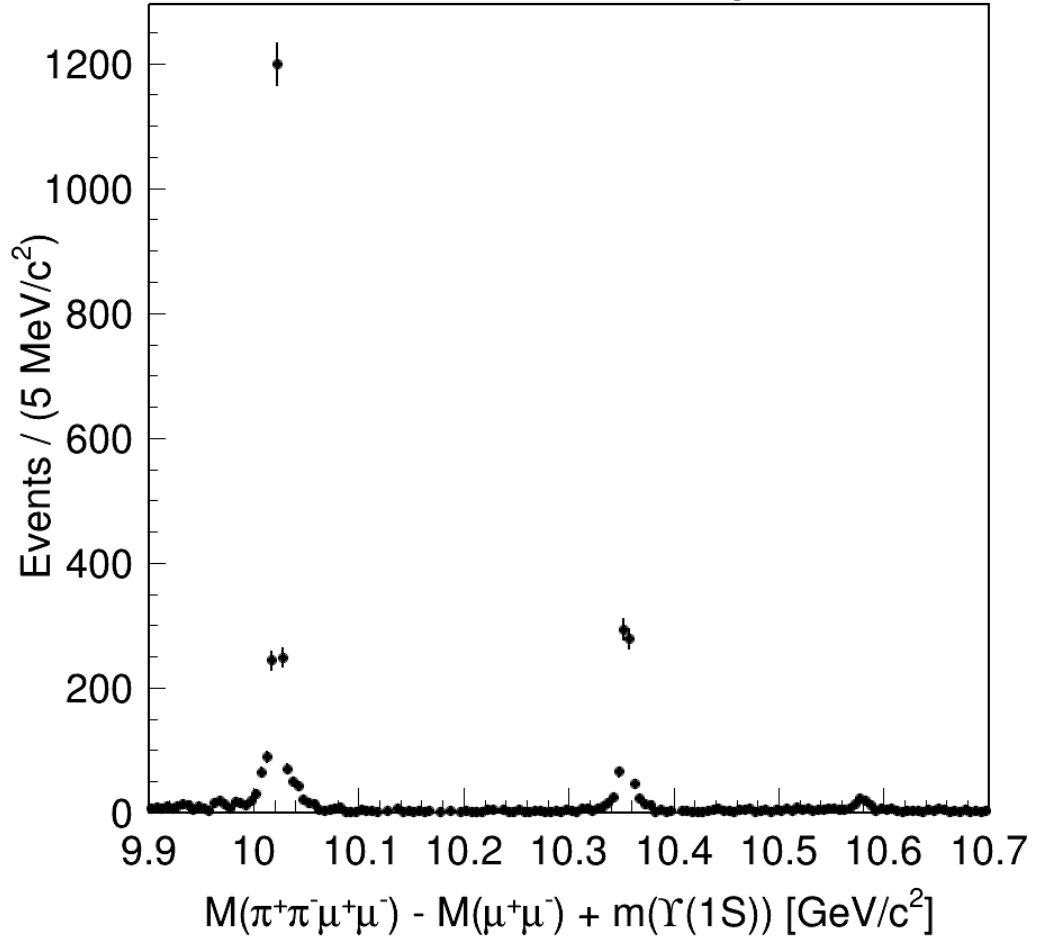


FIG. 2: Plot of  $M(\pi^+\pi^-\mu^+\mu^-) - M(\mu^+\mu^-) + m(\Upsilon(1S))$  with a requirement of  $|M(\mu\mu) - m(\Upsilon(1S))| < 75 \text{ MeV}/c^2$ , where  $m(\Upsilon(1S))$  represents the nominal  $\Upsilon(1S)$  mass.

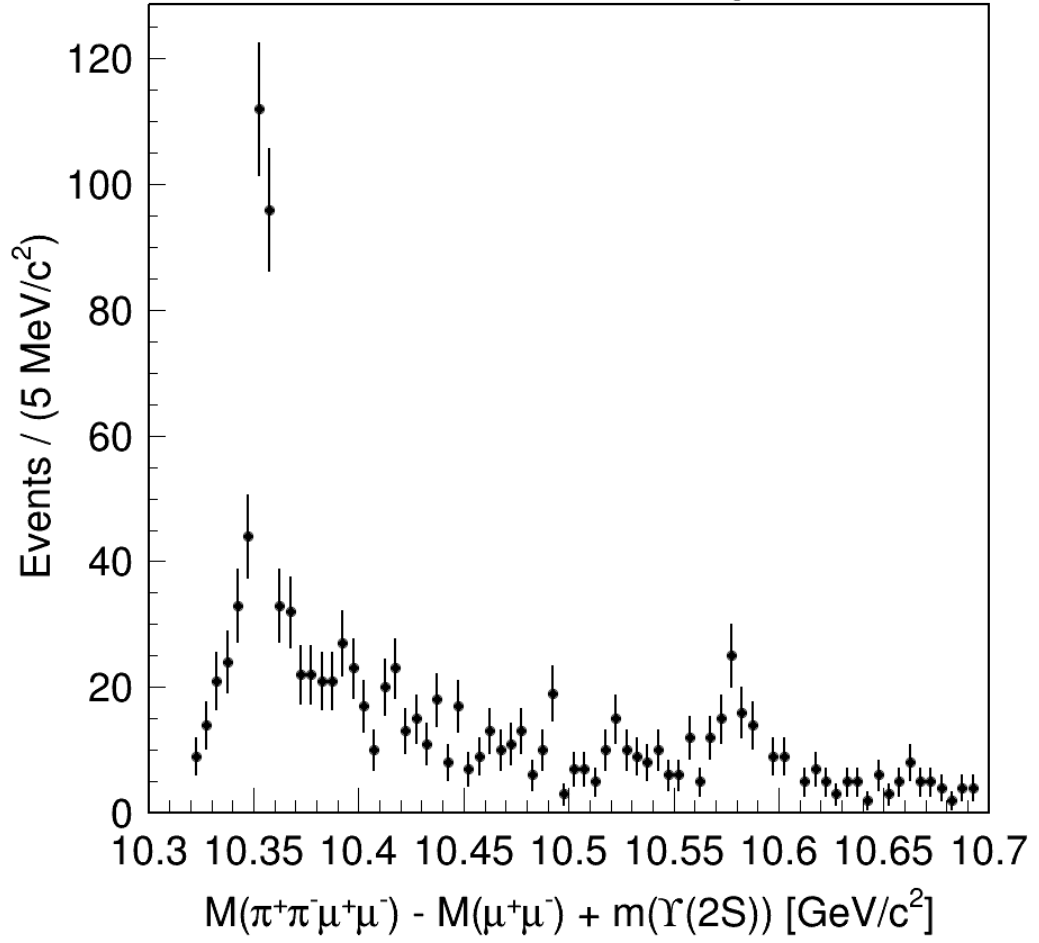


FIG. 3: Plot of  $M(\pi^+\pi^-\mu^+\mu^-) - M(\mu^+\mu^-) + m(\Upsilon(2S))$  with a requirement of  $|M(\mu\mu) - m(\Upsilon(2S))| < 75 \text{ MeV}/c^2$ , where  $m(\Upsilon(2S))$  represents the nominal  $\Upsilon(2S)$  mass.