Contribution ID: **766** Type: **Parallel Sessions**

Study of inclusive production of $S = 0$, 1, 2, or 3 baryons from $\Upsilon(1,2S)$ at Belle

Using samples of 102 million $\Upsilon(1S)$ and 158 million $\Upsilon(2S)$ events and about 70 fb^{-1} of data taken in the nearby continuum with the Belle detector at the KEKB asymmetric-energy e^+e^- collider, we compare the inclusive production rates of baryons in 3-gluon vs. quark fragmentation processes. The spectra of p, Λ, Σ, Ξ, and Ω baryons are compared, and we quantify the enhanced production in 3-gluon mechanisms by studying their dependence on strange quark content. Experimental results are compared with Monte Carlo predictions.

Author: Prof. KWON, Youngjoon (Yonsei University)

Presenter: Prof. KWON, Youngjoon (Yonsei University)

Track Classification: Track 7. CP Violation, CKM, Rare Decays, Meson Spectroscopy