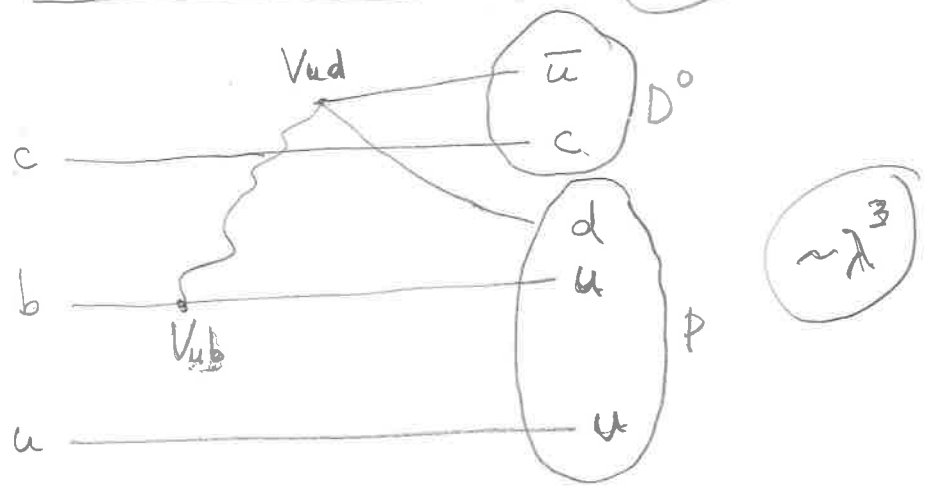
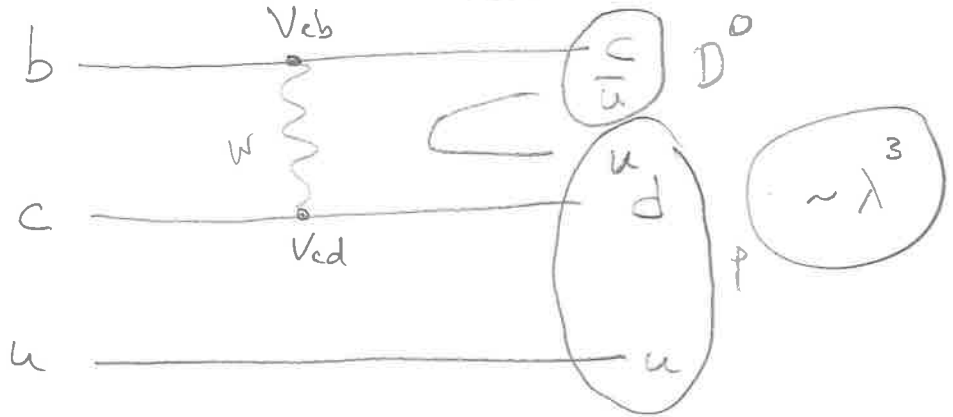
$\Xi_{bc}^{+} \to D^0 p$

TREE



$\sim \lambda^3$

EXCHANGE



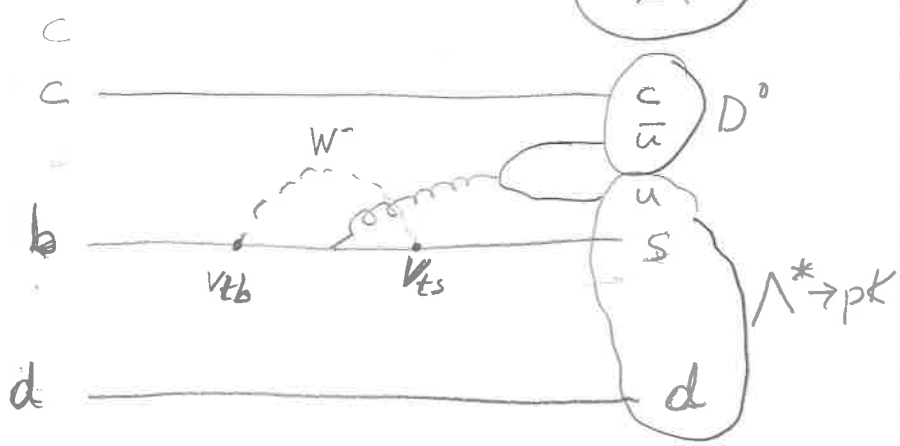
$\sim \lambda^3$

$+$

$b \to d u \bar{u}$ (penguin) (λ^3)

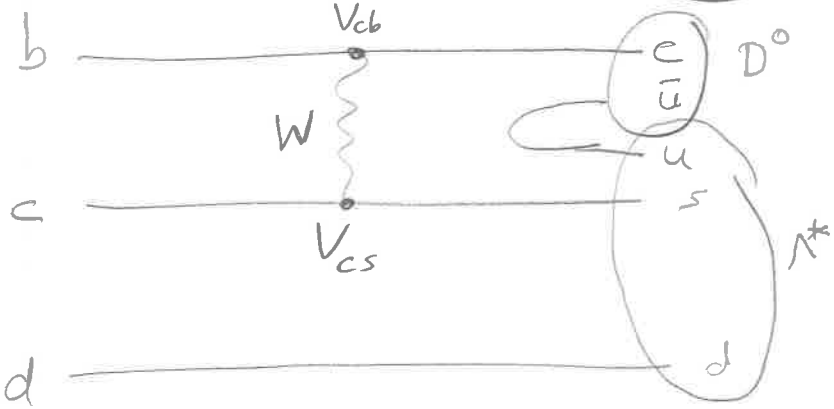
$\Xi_{bc}^{0} \to D^0 p K^-$

$\approx \lambda^2$



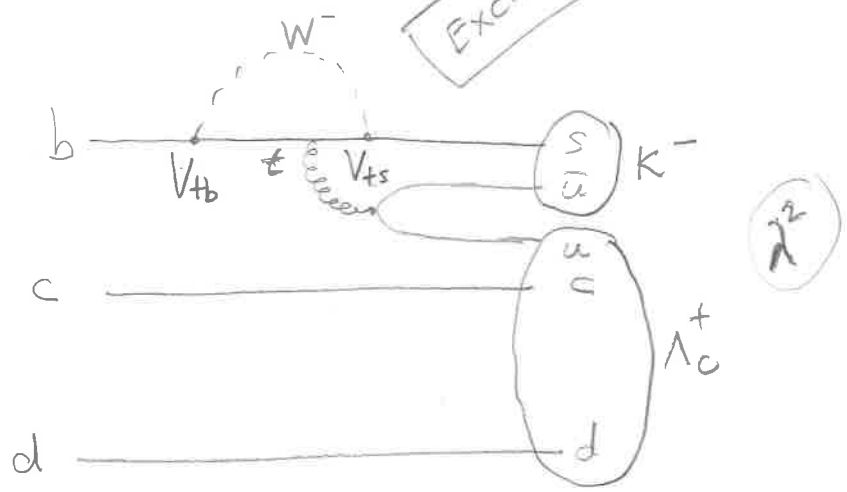
EXCHANGE

$\approx \lambda^2$

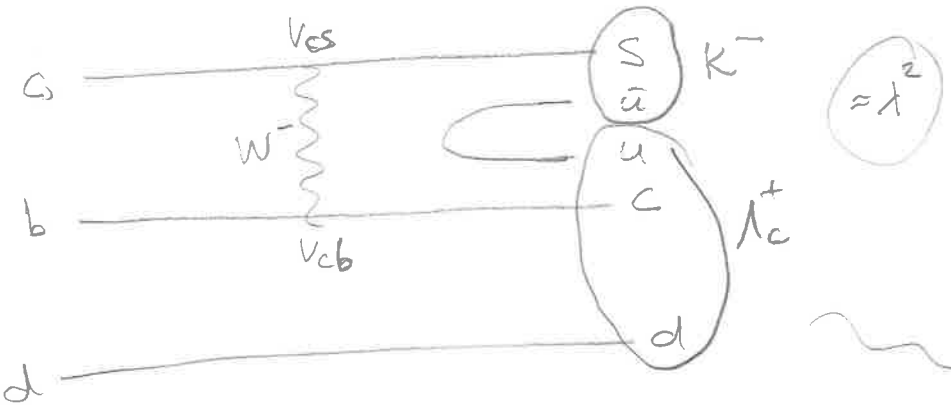


$\Xi_{bc}^{0} \to \Lambda_c^+ K^-$

Exchange



λ^2

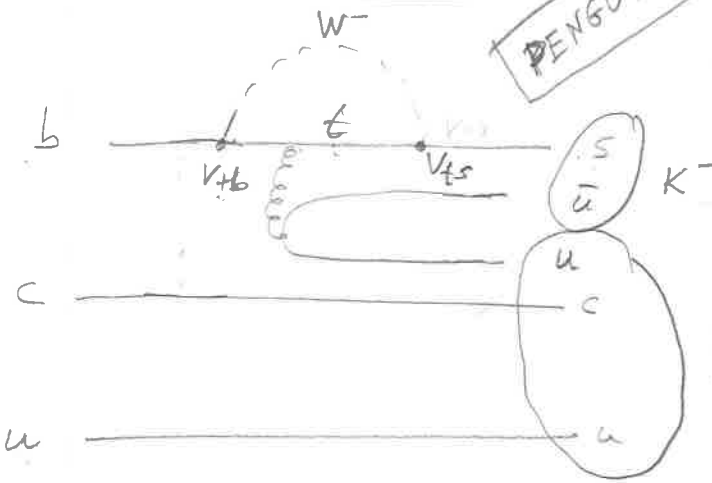


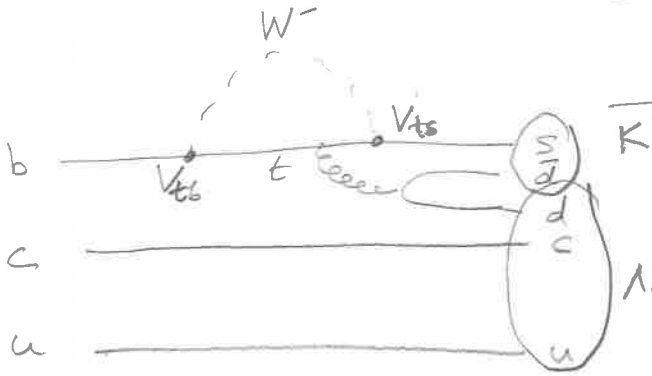
$\approx \lambda^2$

$\Xi_{bc}^{+} \to \Lambda_c^+ K^- \bar{\pi}^+$

PENGUIN

$\approx \lambda^2$





$\approx \lambda^2$

Exchange diagram also gives

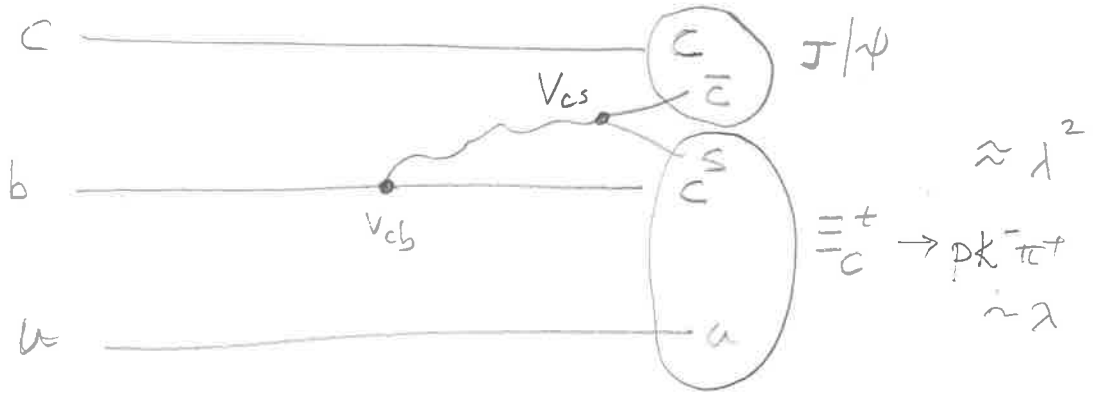
$\Xi_{bc}^{+} \to \Sigma_c^{++} K^-$, $\Sigma_c^{++} \to \Lambda_c^+ \pi^+$

$\Xi_{bc}^{+} \to \Lambda_c^+ \overline{K^{*0}}$, $\overline{K^{*0}} \to K^- \bar{\pi}^+$

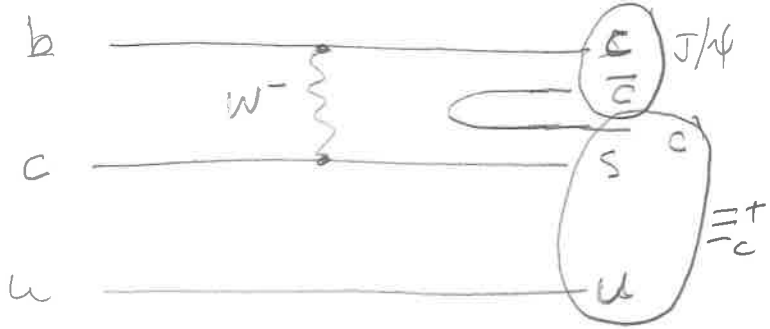
$\Xi_{bc}^{+} \to \Lambda_c^+ K^- \bar{\pi}^+$ (non-resonant)

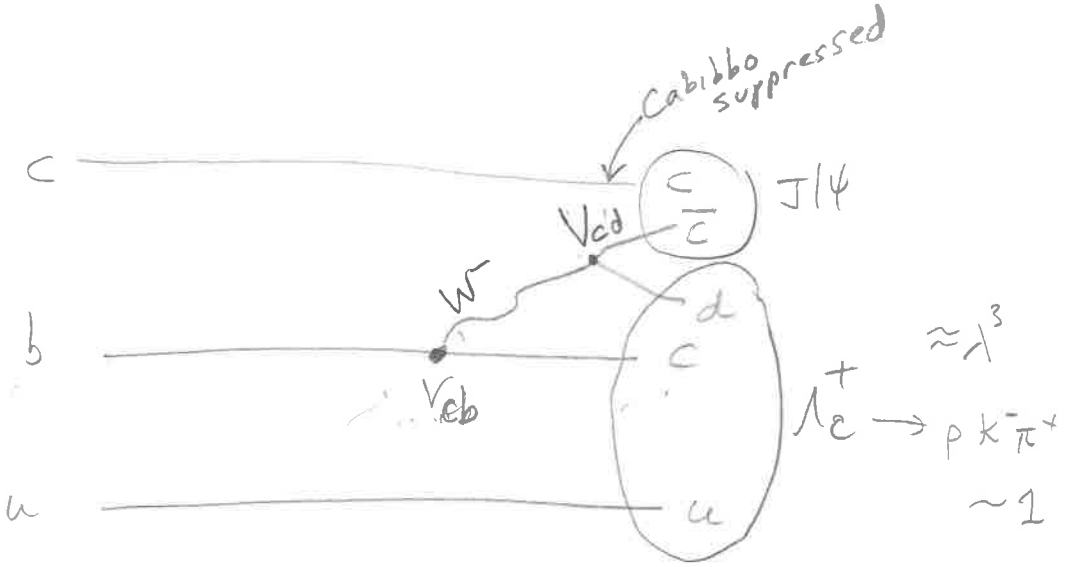
$\Xi_{bc}^{+} \longrightarrow J/\psi \{\Xi_c^+, \Lambda_c^+\}$

Color-suppressed Tree



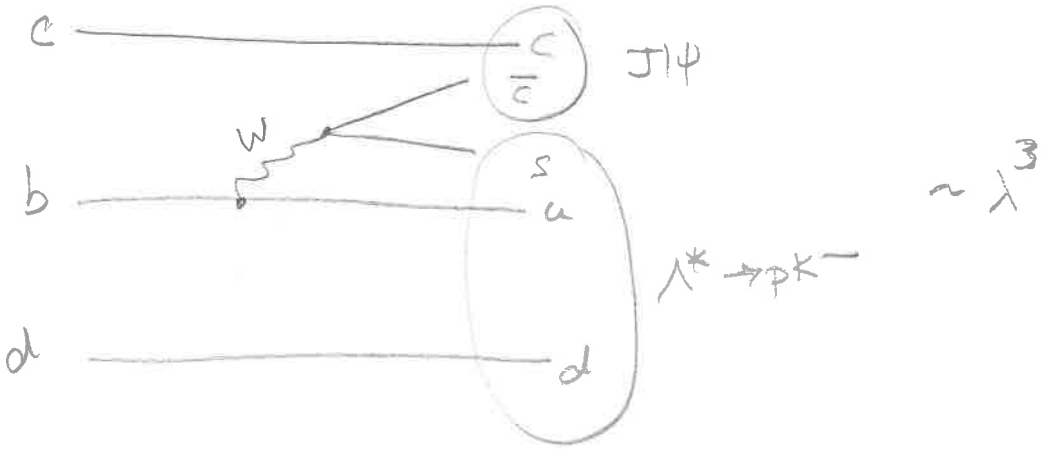
Exchange





$\Xi_{bc}^{0} \to J/\psi\, p\, K^{-}$

$b \to u$ digrams



$\Lambda_b \to \Lambda_c^{+} \pi^{-}$