



$R(\pi)$ and $R(\rho)$

with hadronic FEI

Currently working on the signal $B \rightarrow (\pi, \rho)\tau\nu_\tau$ decays.

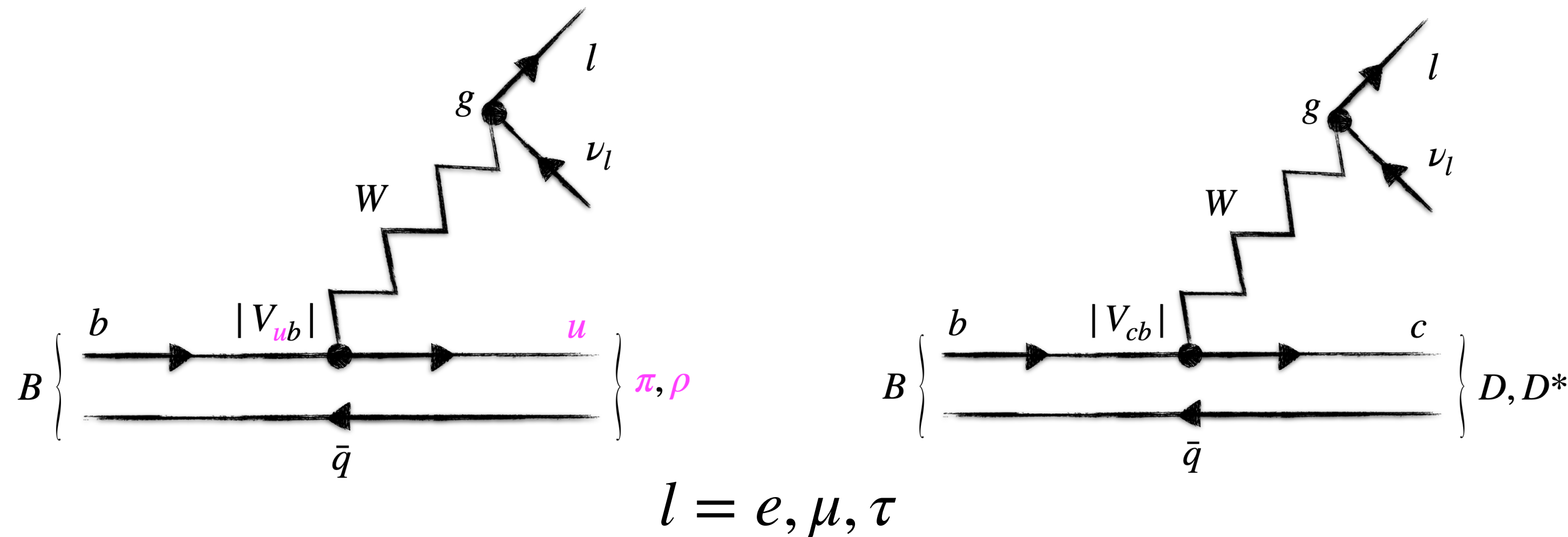
Anja Novosel, Paul Feichtinger, Luka Šantelj

F9 Strategic Meeting

Lepton Flavour Universality (LFU) in B meson decays

Semileptonic B decays are mediated by a charged weak boson (W).

On quark quark level: $b \rightarrow ul\nu_l$ or $b \rightarrow cl\nu_l$ transition.



$$|V_{ub}| = (3.82 \pm 0.20) \times 10^{-3}$$

First search of

$$B^0 \rightarrow \pi^- \tau^+ \nu_\tau \text{ and } B^+ \rightarrow \rho^0 \tau^+ \nu_\tau$$

Using Belle II Run1 data.

