I will discuss lattice predictions for the form factors of the charged currents  $b \rightarrow u \ell \bar{\nu}$ and  $b \rightarrow c \ell \bar{\nu}$  relevant for exclusive determinations of  $|V_{ub}|$  and  $|V_{cb}|$  respectively.

For  $b \rightarrow u \ell \bar{\nu}$  I will talk about:

- The new form factors for  $B \to \pi \ell \bar{\nu}$  from JLQCD.
- ▶ Work underway on  $B_s \rightarrow \{K, D_s\}\ell\bar{\nu}$  and  $B \rightarrow \pi\ell\bar{\nu}$  from HPQCD and Fermilab/MILC.
- ▶ Preliminary HPQCD decay constants for  $B^{(*)} \rightarrow \ell \bar{\nu}$ , including tensor decay constants.

For  $b 
ightarrow c \ell \bar{
u}$  I will talk about:

- The main focus of my talk will be on the three recent JLQCD, HPQCD and Fermilab/MILC  $B \rightarrow D^*$  form factor calculations.
- The disagreement of the HPQCD FFs with the HQE results of 1912.09335, looking at form factors and the ratios R<sub>0</sub>, R<sub>1</sub>, R<sub>2</sub>.
- ▶ Tensions seen in the shape between LQCD and the results from Belle, as well as the determined value of  $V_{cb}$  using either the total rate or the fit to the full angular distribution for  $B \rightarrow D^*$ .
- Prospects for lattice calculations of the B → D\* FFs in the near future, including what statistical and methodological improvements can be made.

I will also talk briefly about inclusive  $V_{ub}$  and  $V_{cb}$  determinations on the lattice.