

FLAG 2024

$|V_{cd}|$

$|V_{cs}|$

$N_f=2+1+1$

our estimate for $N_f=2+1+1$

$D_{(s)} \rightarrow \ell \nu$

$D \rightarrow \pi/K \ell \nu$

$D_s \rightarrow K \ell \nu$

$N_f=2+1$

our estimate for $N_f=2+1$

$D_{(s)} \rightarrow \ell \nu$

$D \rightarrow \pi/K \ell \nu (q^2=0)$

$\Lambda_c \rightarrow \Lambda \ell \nu$

non-lattice

neutrino scattering

CKM unitarity

0.20

0.24

0.28

0.92

1.00

1.08