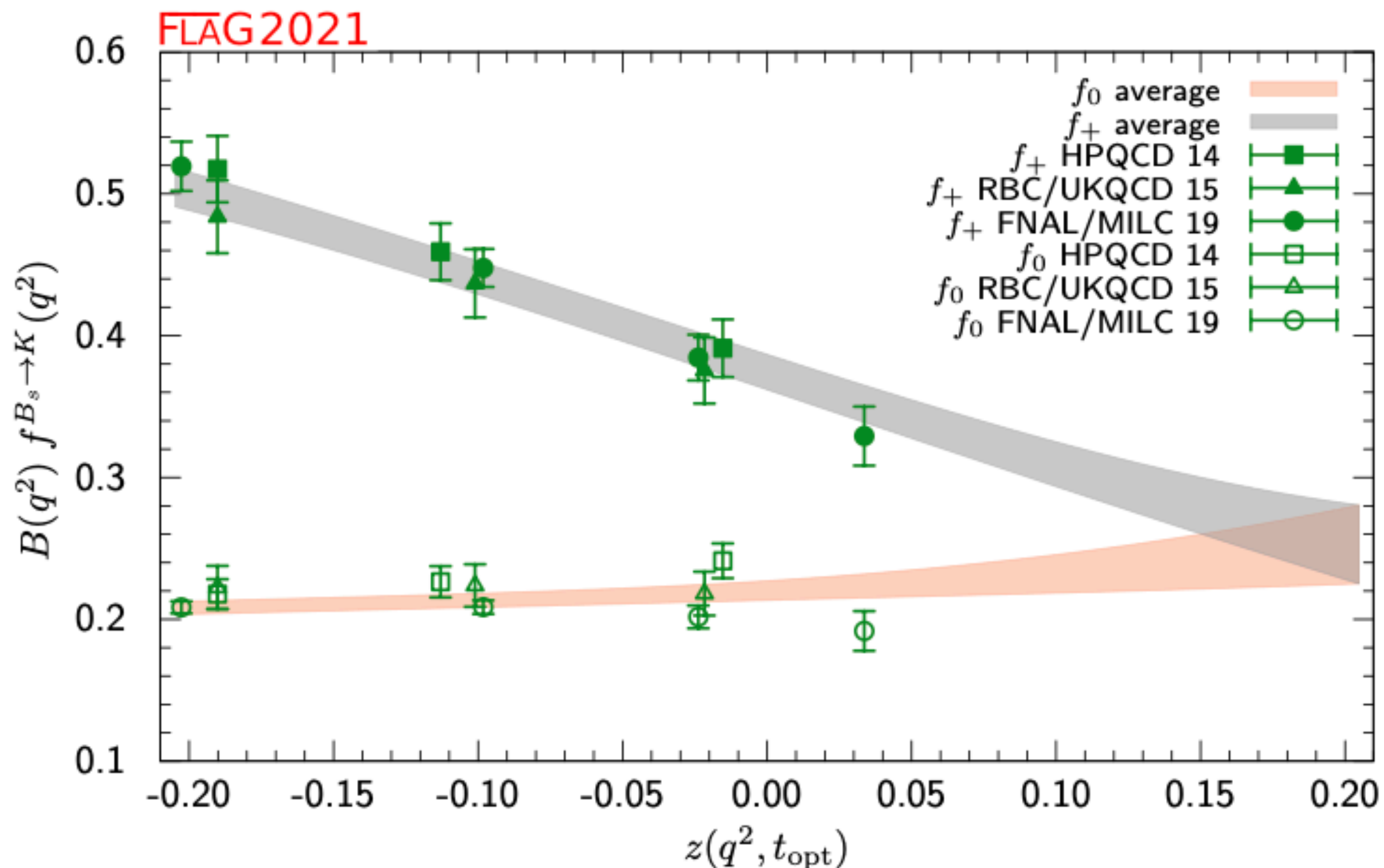


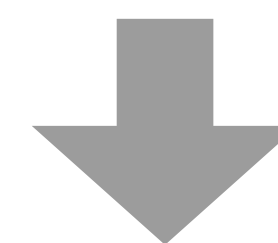
Comments on V_{ub}/V_{cb} from $B_s \rightarrow K$

- FLAG combined $B_s \rightarrow K$ form factors:



$$\frac{1}{|V_{ub}|^2} \int_{q_{\min}^2=m_\mu^2}^{7 \text{ GeV}^2} \frac{d\Gamma(B_s \rightarrow K^- \mu^+ \nu_\mu)}{dq^2} = (2.26 \pm 0.38) \text{ ps}^{-1}$$

$$\frac{1}{|V_{ub}|^2} \int_{7 \text{ GeV}^2}^{q_{\max}^2=(m_{B_s}-m_K)^2} \frac{d\Gamma(B_s \rightarrow K^- \mu^+ \nu_\mu)}{dq^2} = (4.02 \pm 0.31) \text{ ps}^{-1}$$



$$\frac{|V_{ub}|}{|V_{cb}|} (\text{low}) = 0.0819 \pm 0.0072_{\text{lat.}} \pm 0.0029_{\text{exp}}$$

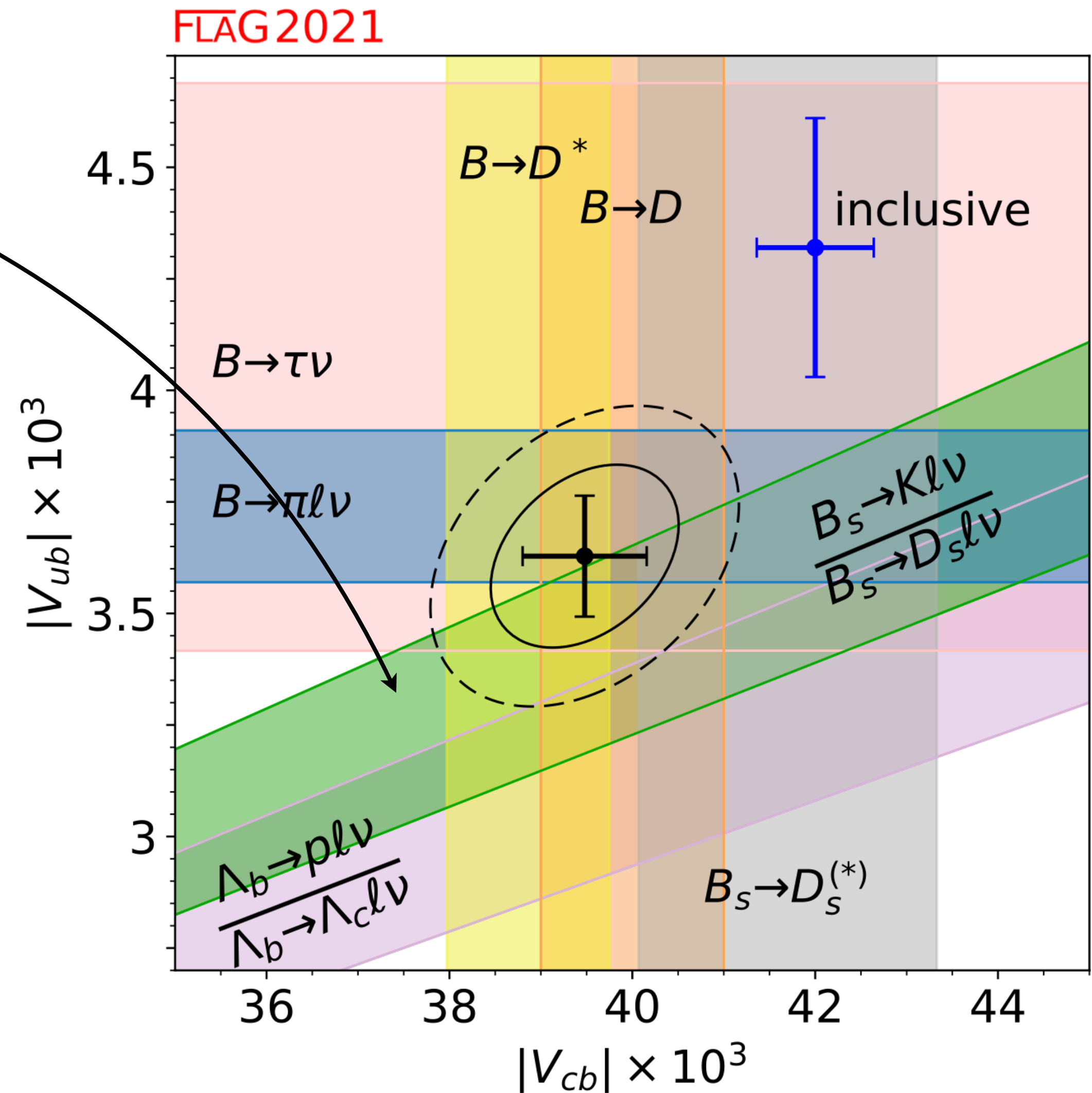
$$\frac{|V_{ub}|}{|V_{cb}|} (\text{high}) = 0.0860 \pm 0.0037_{\text{lat.}} \pm 0.0038_{\text{exp}}$$

Comments on V_{ub}/V_{cb} from $B_s \rightarrow K$

- FLAG $|V_{ub}/V_{cb}|$ from $B_s \rightarrow K$ (only high- q^2):

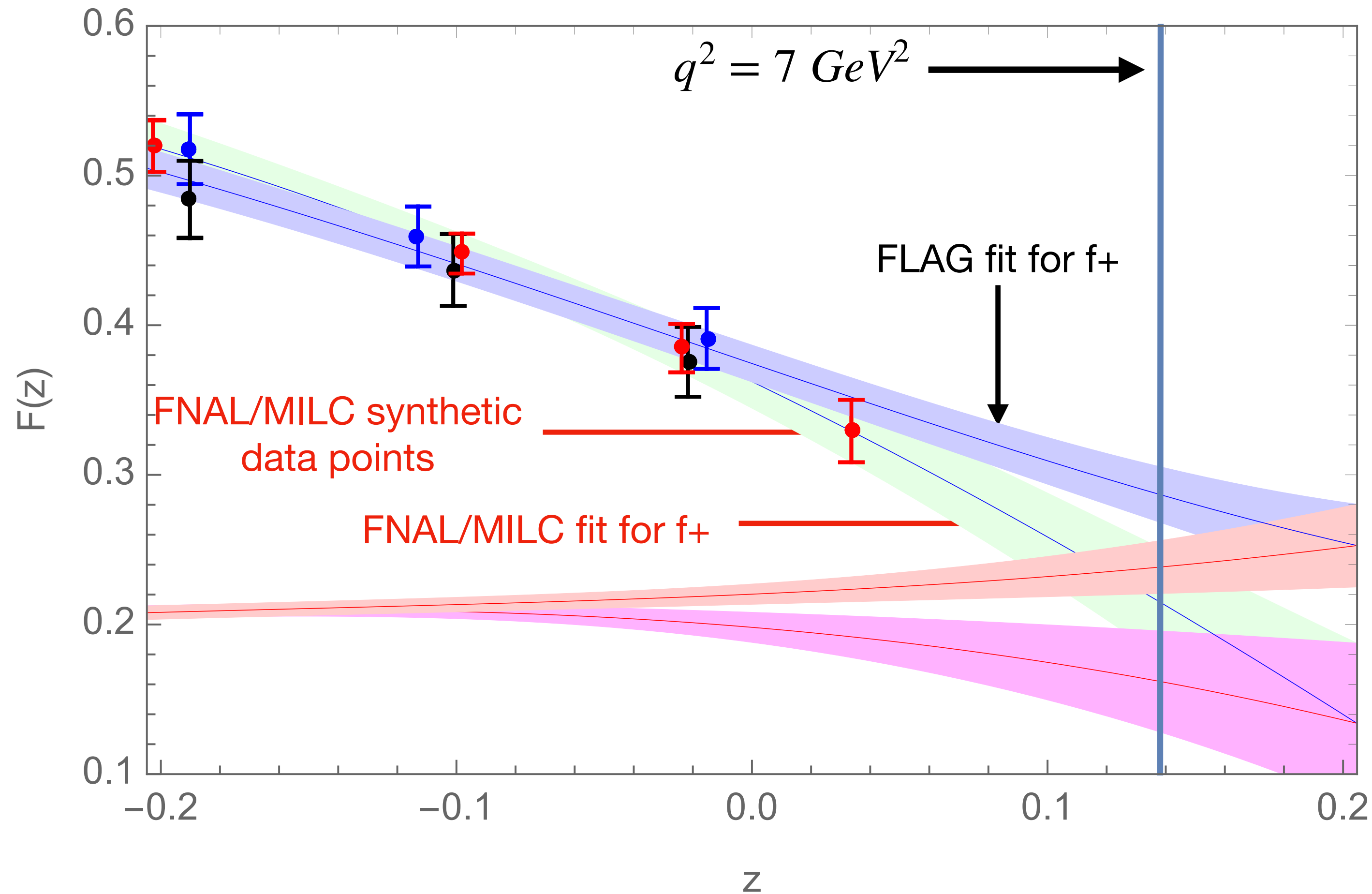
$$\frac{|V_{ub}|}{|V_{cb}|}(\text{low}) = 0.0819 \pm 0.0072_{\text{lat.}} \pm 0.0029_{\text{exp}}$$

$$\frac{|V_{ub}|}{|V_{cb}|}(\text{high}) = 0.0860 \pm 0.0037_{\text{lat.}} \pm 0.0038_{\text{exp}}$$



Comments on V_{ub}/V_{cb} from $B_s \rightarrow K$

- Using only FNAL/MILC:

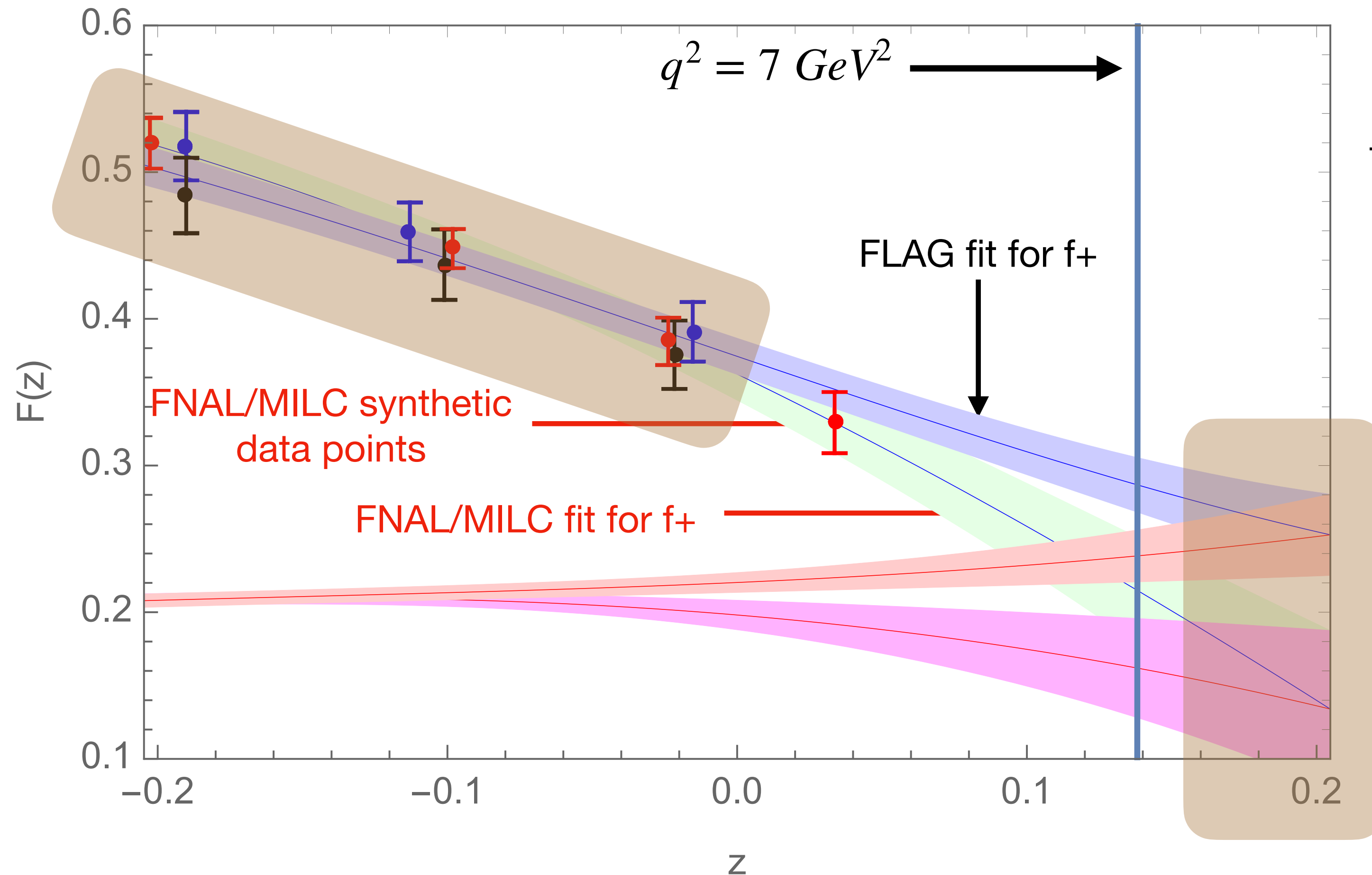


$$\frac{1}{|V_{ub}|^2} \int_{7 \text{ GeV}^2}^{q_{\text{max}}^2} \frac{d\Gamma(B_s \rightarrow K^- \mu^+ \nu_\mu)}{dq^2} = (3.32 \pm 0.49) \text{ ps}^{-1}$$

This is the value quoted by LHCb

Comments on V_{ub}/V_{cb} from $B_s \rightarrow K$

- Using only FNAL/MILC:



$$\frac{1}{|V_{ub}|^2} \int_{7 \text{ GeV}^2}^{q_{\text{max}}^2} \frac{d\Gamma(B_s \rightarrow K^- \mu^+ \nu_\mu)}{dq^2} = (3.32 \pm 0.49) \text{ ps}^{-1}$$

This is the value quoted by LHCb

The inclusion of data points from different lattice collaborations lead to huge extrapolation differences even though the points are essentially compatible with the three highest q^2 FNAL/MILC ones