

CLEO ( $E_e$ )

$$3.83 \pm 0.45 + 0.32 - 0.33$$

BELLE sim. ann. ( $m_X, q^2$ )

$$4.23 \pm 0.45 + 0.29 - 0.30$$

BELLE ( $E_e$ )

$$4.64 \pm 0.43 + 0.29 - 0.31$$

BABAR ( $E_e$ )

$$4.18 \pm 0.24 + 0.29 - 0.31$$

BABAR ( $E_e, s_h^{\max}$ )

$$4.28 \pm 0.29 + 0.36 - 0.37$$

BELLE ( $m_X$ )

$$3.90 \pm 0.26 + 0.24 - 0.26$$

BABAR ( $m_X$ )

$$4.02 \pm 0.19 + 0.27 - 0.29$$

BABAR ( $m_X - q^2$ )

$$4.32 \pm 0.28 + 0.29 - 0.31$$

BABAR ( $P^+$ )

$$3.65 \pm 0.24 + 0.25 - 0.27$$

Average +/- exp + theory - theory

$$4.06 \pm 0.15 + 0.25 - 0.27$$

$\chi^2/\text{dof} = 13.9/8$  (CL = 9.00 %)

Bosch, Lange, Neubert and Paz (BLNP)  
Phys.Rev.D72:073006,2005

**HFAG**  
Winter09

2

4

6

$|V_{ub}|$  [ $\times 10^{-3}$ ]

