

CLEO ( $E_e$ )

$$3.42 \pm 0.40 \pm 0.17$$

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

$$3.93 \pm 0.41 + 0.18 - 0.17$$

BELLE ( $E_e$ )

$$4.48 \pm 0.42 \pm 0.20$$

BABAR ( $E_e$ )

$$3.93 \pm 0.22 \pm 0.20$$

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

$$3.81 \pm 0.19 + 0.19 - 0.18$$

BELLE multivariate ( $p^*$ )

$$4.50 \pm 0.30 \pm 0.20$$

BABAR ( $m_X < 1.55$ )

$$3.83 \pm 0.18 + 0.20 - 0.19$$

BABAR ( $m_X < 1.7$ )

$$3.75 \pm 0.21 \pm 0.18$$

BABAR ( $m_X < 1.7, q^2 > 8$ )

$$3.75 \pm 0.20 \pm 0.17$$

BABAR ( $P^+ < 0.66$ )

$$3.57 \pm 0.22 + 0.19 - 0.18$$

BABAR ( $(m_X - q^2)$  fit,  $p^* > 1$ )

$$4.33 \pm 0.24 \pm 0.19$$

BABAR ( $p^* > 1.3$ )

$$4.28 \pm 0.27 \pm 0.19$$

Average +/- exp + theory - theory

$$4.08 \pm 0.13 + 0.18 - 0.12$$

$\chi^2/\text{dof} = 28.4/11$  (CL = 0.30 %)

U.Aglietti, F.Di Lodovico, G.Ferrera, G.Ricciardi (ADFR)

Eur.Phys.J.C59:831,2009 and references therein

**HFAG**

Summer2016

2

4

6

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