

Observable	Measurement	Source	SM prediction	References
$B_s^0$ system				
$\Delta m_s$ ( $\text{ps}^{-1}$ )	$17.719 \pm 0.043$ $17.725 \pm 0.041 \pm 0.026$	HFAG 2012 [?] LHCb ( $0.34 \text{ fb}^{-1}$ ) [?]	$17.3 \pm 2.6$	[?, ?, ?]
$\Delta \Gamma_s$ ( $\text{ps}^{-1}$ )	$0.105 \pm 0.015$ $0.116 \pm 0.018 \pm 0.006$	HFAG 2012 [?] LHCb ( $1.0 \text{ fb}^{-1}$ ) [?]	$0.087 \pm 0.021$	[?, ?, ?]
$\phi_s$ (rad)	$-0.044^{+0.090}_{-0.085}$ $-0.002 \pm 0.083 \pm 0.027$	HFAG 2012 [?] LHCb ( $1.0 \text{ fb}^{-1}$ ) [?]	$-0.036 \pm 0.002$	[?, ?, ?]
$a_{\text{sl}}^s$ ( $10^{-4}$ )	$-17 \pm 91^{+14}_{-15}$ $-105 \pm 64$	D0 (no $A_{\text{SL}}^b$ ) [?] HFAG 2012 (including $A_{\text{SL}}^b$ ) [?]	$0.29^{+0.09}_{-0.08}$	[?, ?, ?]
Admixture of $B^0$ and $B_s^0$ systems				
$A_{\text{SL}}^b$ ( $10^{-4}$ )	$-78.7 \pm 17.1 \pm 9.3$	D0 [?]	$-2.0 \pm 0.3$	[?, ?, ?]
$B^0$ system				
$\Delta m_d$ ( $\text{ps}^{-1}$ )	$0.507 \pm 0.004$	HFAG 2012 [?]	$0.543 \pm 0.091$	[?, ?, ?]
$\Delta \Gamma_d / \Gamma_d$	$0.015 \pm 0.018$	HFAG 2012 [?]	$0.0042 \pm 0.0008$	[?, ?, ?]
$\sin 2\beta$	$0.679 \pm 0.020$	HFAG 2012 [?]	$0.832^{+0.013}_{-0.033}$	[?, ?, ?]
$a_{\text{sl}}^d$ ( $10^{-4}$ )	$-5 \pm 56$	HFAG 2012 [?]	$-6.5^{+1.9}_{-1.7}$	[?, ?, ?]