Influence on the unitarity triangle

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$$V_{\rm CKM} = \begin{pmatrix} 1-\frac{\lambda^2}{2} & \lambda & A\lambda^3(\rho - i\eta) \\ -\lambda & 1-\frac{\lambda^2}{2} & A\lambda^2 \\ A\lambda^3(1-\rho-\eta) & -A\lambda^2 & 1 \end{pmatrix} + \mathcal{O}(\lambda^4)$$

χ^2 fit of (A, ρ, η) using :

measurement	central value	exp. error	model-dep. errors
$\|V_{bc}\|$	.039	.004	-
$\|\frac{V_{bu}}{V_{bc}}\|$	.080	.005	.020
$\Delta m_{B_d}\ (ps)^{-1}$	.464	.018	-
$\|\epsilon_K\|\ (10^{-3})$	2.258	.018	-
$\Delta m_{B_s}(\mathcal{A})$			

Problem: $< \frac{V_{bu}}{V_{bc}} >, f_{B_d}\sqrt{B_{B_d}}, B_K$ poorly known

Theoretical predictions :

Theoretical est.	lower bound	intermediate value	higher bound
$< \frac{V_{bu}}{V_{bc}} >$	0.06	0.08	0.1
$f_{B_d}\sqrt{B_{B_d}}$	.160	.200	.240
B_K	.60	.80	1.0

Since we do not know which is right, try them all:
a scan of $M = < \frac{V_{bu}}{V_{bc}} >, f_{B_d}\sqrt{B_{B_d}}, B_K$ (a th. model)

$\rightarrow \chi^2_M(A, \rho, \eta)$

in practice 3x3x3 values have been scanned $\rightarrow$ 27 minimizations.