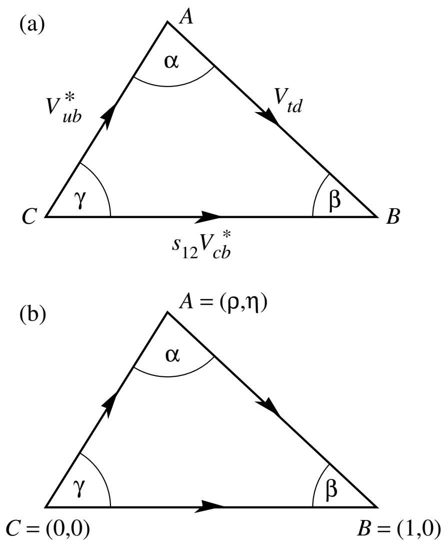

Figure 28.1: (a) Representation in the complex plane of the triangle formed by the CKM matrix elements V^*_{ub}, V_{td}, and $s_{12}\,V_{cb}$. (b) Rescaled triangle with vertices $A(\rho,\eta)$, $B(1,0)$, and $C(0,0)$.

the CKM matrix. For CP-violating asymmetries of neutral B mesons decaying to CP eigenstates, there is a direct relationship between the magnitude of the asymmetry in a given decay and $\sin 2\phi$, where $\phi = \alpha,\ \beta,\ \gamma$ is an appropriate angle of the unitarity triangle [38].

The combination of all the direct and indirect information can be used to find the overall constraints on the CKM matrix and thence the implications for future measurements of CP violation in the B system [40].

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