

## CP violation with the fourth generation quarks

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By constructing and employing global, unique fit for the fourth generation mass mixing matrix within the Standard model with the 4th generation quarks  $b'$  and  $t'$ , we examine CP-violating phenomena in flavor changing neutral current processes  $t \rightarrow cX$ ;  $b' \rightarrow sX$ ,  $b' \rightarrow bX$ ,  $t' \rightarrow cX$ , and  $t' \rightarrow tX$ , with  $X=Z, H, \gamma, g$  and discuss their effects on the global CPV picture.

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