

**Eilam, Hewett, and Soni Reply:** We agree with the arguments of Soares [1], which may have practical consequences for extensions of the standard model. Indeed, in our Eq. (6) [2] for the  $CP$  violation asymmetry (i.e.,  $a$ ) for the  $t \rightarrow qq'\bar{q}$  mode,  $\Gamma_W$  in the second line of the equation should be replaced by  $\Gamma'_W$ , where  $\Gamma'_W = \Gamma_W - \Gamma(W \rightarrow q'\bar{q})$  to take account of the rescattering effects. However, as discussed in our Letter, the largest  $CP$  violation asymmetry in the standard model is obtained for the process  $t \rightarrow d\bar{c}\bar{d}$  for which numerical results were presented. For that process, rescattering effects are very small

TABLE I.  $CP$  violation asymmetry ( $a$ ) including rescattering effects in the standard model for various processes with  $m_t = 130$  GeV. Note that for purposes of comparison, the asymmetry without rescattering effects is given in parentheses wherever applicable. Note also that the asymmetry given for  $t \rightarrow d\bar{c}\bar{s}$  and  $t \rightarrow de^+v_e$  modes is only that which is necessary for compensating the corresponding asymmetry in  $t \rightarrow du\bar{d}$  arising from the  $W$ -boson width. For the  $t \rightarrow d\bar{c}\bar{d}$  and  $t \rightarrow du\bar{d}$  modes an appreciable fraction of the asymmetry arises due to the imaginary part of the penguin graph and is included in these numbers.

Mode	$a$	$(a^2 B)^{-1}$
$t \rightarrow d\bar{c}\bar{d}$	$-5.97 \times 10^{-5}$ ( $-6.00 \times 10^{-5}$ )	$1.6 \times 10^{14}$
$t \rightarrow du\bar{d}$	$2.5 \times 10^{-6}$ ( $3.1 \times 10^{-6}$ )	$4.7 \times 10^{15}$
$t \rightarrow d\bar{c}\bar{s}$	$-6.6 \times 10^{-7}$	$6.6 \times 10^{16}$
$t \rightarrow de^+v_e$	$-2.2 \times 10^{-7}$	$1.7 \times 10^{18}$

due to Cabibbo suppression, as is also pointed out by Soares. Our results for the value of the asymmetry remain therefore unchanged, as can be seen by comparing Table I with Fig. 1 of our Letter. In the table we also display values for the  $CP$  violation asymmetry in the standard model, including the rescattering effects, for various other final states (taking  $m_t = 130$  GeV, and denoting the branching fraction as  $B$ ).

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[1] J. M. Soares, preceding Comment, Phys. Rev. Lett. **68**, 2102 (1992).

[2] G. Eilam, J. L. Hewett, and A. Soni, Phys. Rev. Lett. **67**, 1979 (1991).