Erratum: Mixed-pairing superconductivity in $5d$ Mott insulators with antisymmetric exchange: Application to Sr_2IrO_4 [Phys. Rev. B **96, 205156 (2017)]**

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In the originally published version a numerical error was made in the calculations corresponding to Fig. 3. The correct Fig. 3 and the consequent discussions are presented here. The quasiparticle interference intensity along the $(0, 0) - (\pi, \pi)$ direction is presented for both inter- and intraband scattering processes in Fig. 3(d). Here, all of the survived inter- and intraband scatterings are labeled as (1,2) and (3–6), respectively. The interband peak 1 corresponds to scattering between AD and $A'D'$, whereas the interband peak 2 describes umklapp scattering between BB' and CC' . The intraband peak 3 is related to scattering phenomena

among AA , $A'A'$, DD , and $D'D'$. But the intraband peak 4 explains scattering among BB , $B'B'$, CC , and $C'C'$. The intraband peak 5 corresponds to umklapp scattering among BB , $B'B'$, CC , and $C'C'$. Finally, the intraband peak 6 shows the umklapp scattering among AA , $A'A'$, DD , and $D'D'$. For visualizing the effect of the coherence factor on annihilating or amplifying the scattering intensities, we represent the direction of $\hat{g}_{\mathbf{k}} (\pm\hat{z})$ in Fig. 3(e). It clearly shows that only the scattering originated from the pockets with different (same) colors have contributions if they belong to regimes with the opposite (identical) directions of $\hat{g}_{\mathbf{k}}$.

FIG. 3. (a) Fermi-surface energy contours (solid lines): blue (red) represents the band with $\xi = -1$ ($\xi = +1$); the dashed lines indicate the node structure of the gap function. (b) Constant contours of energy (spectral function) for the superconducting state on the (k_x, k_y) plane at $\omega = 0.1t_0$. The small pockets, A , A' , ..., D , D' , which appear around the nodes in the spectral function, moderate the scattering wave vectors. (c) The absolute value of the total quasiparticle interference (QPI) spectrum on the (q_x, q_y) plane, corresponding to the spectral function in (b). Note: The range of plots in (a)–(c) and (e) is $[-\pi, \pi]$. (d) The QPI intensity along the $(0, 0) - (\pi, \pi)$ direction for inter- (intra-) band scatterings in the upper (lower) panel. The peaks (1–6) are related to the main scattering vectors, namely, 1: AD and $A'D'$, 2: BB' and CC' (umklapp scattering), 3: AA , $A'A'$, DD , $D'D'$, 4: BB , $B'B'$, CC , $C'C'$, and finally, 5: BB , $B'B'$, CC , $C'C'$ and 6: AA , $A'A'$, DD , $D'D'$ for umklapp scatterings, and (e) represents the direction of the $\hat{g}_{\mathbf{k}} (\pm\hat{z})$ in the entire Brillouin zone, here yellow/blue correspond to $\hat{g}_{\mathbf{k}} = \pm\hat{z}$.