Erratum: Symmetry of Orbital Order in Fe$_3$O$_4$ Studied by Fe $L_{2,3}$ Resonant X-Ray Diffraction


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We found an error in the drawing algorithm for the theoretical intensity curves in Figs. 1(b)–1(d) and 2 in the Letter. We present the corrected versions of Figs. 1(b)–1(d) and 2. This mistake affects the optimal choice of the parameter set to reproduce the experimental intensities, but does not alter any conclusion or discussions made in the Letter. The values of parameters in the caption of Fig. 1, and in the first paragraph on page 4 should read Re[$F_{yz}$]:Im[$F_{zx}$]:Re[$F_{xy}$] = 1:1.4:2.0 instead of Re[$F_{yz}$]:Im[$F_{zx}$]:Re[$F_{xy}$] = 1:0.63:0.63. Accordingly, the ratio Re[$F_{xy}$]/Re[$F_{yz}$] ~ 0.6 indicated in the second and fourth paragraphs on page 4 should be replaced by Re[$F_{xy}$]/Re[$F_{yz}$] ~ 2.0. In the second paragraph on page 2, we incorrectly mention that MgO (001) substrates were miscut by 6° towards [001]. The miscut of the substrates should be towards [010] instead of [001].

![FIG. 1 (color online). Corrected version of Figs. 1(b)–1(d) in the Letter.](image)

![FIG. 2. Corrected version of Fig. 2 in the Letter.](image)