Erratum: Ultrafast Doublon Dynamics in Photoexcited 1T-TaS₂ **[Phys. Rev. Lett. 120, 166401 (2018)]**

M. Ligges, I. Avigo, D. Golež, H. U. R. Strand, Y. Beyazit, K. Hanff, F. Diekmann, L. Stojchevska,
 M. Kalläne, P. Zhou, K. Rossnagel, M. Eckstein, P. Werner, and U. Bovensiepen

(Received 15 March 2019; published 16 April 2019)

DOI: [10.1103/PhysRevLett.122.159901](https://doi.org/10.1103/PhysRevLett.122.159901)

In the simulations, time is measured in units of $\hbar/J$, where J is the hopping parameter. In the conversion from [eV⁻¹] to [fs], we missed a factor of 2π , which implies that the physical times given in [fs] in the Letter should be divided by 2π . This affects the labels of Fig. 3(a), see Fig. 1 for the corrected version. The comparison of the experimental data and the simulation results is more favorable with the corrected time axis, since the timescales for the dynamics become comparable. The same error occurred in our statements regarding the timescales of electronic hopping, which is $\hbar/J \approx 2$ fs. The discussions and conclusions on the comparison between theory and experiment remain valid.

FIG. 1. (a) Time evolution of the occupation function $G^<(\omega, t)$ for a half-filled band ($n = 1$, left panel) and in the hole-doped case ($n = 0.95$, right panel). The dashed lines show the equilibrium situation before excitation. (b) Equilibrium occupation function $G^<(\omega)$ for $n = 0.98$ (solid lines) and $n = 0.95$ (dashed lines) at different inverse temperatures $\beta = (k_b T)^{-1}$, given in units of W ($\beta = 1$ corresponds to a temperature of 32 300 K). (c) Spectral width of the UHB signature at $E - E_F \approx 175$ meV as a function of excitation density E_0^2 . The dashed line indicates a linear dependence.