Spin Gaps and Spin Dynamics in La$_{2-x}$Sr$_x$CuO$_4$ and YBa$_2$Cu$_3$O$_7$–$\delta$

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We have found errors in our computation of the oxygen and copper relaxation rates from the mean-field analysis of our model, Eq. (1), of the magnetic dynamics of two coupled planes. The results were presented in Fig. 3 of the original paper; a corrected version appears below. The errors do not affect our principal conclusion, that the spin dynamics of La$_{2-x}$Sr$_x$CuO$_4$ and YBa$_2$Cu$_3$O$_{7+\delta}$ are very different. However, our interpretation of the spin dynamics of YBa$_2$Cu$_3$O$_{6+\delta}$ in terms of the coupled plane model of Eq. (1) must be substantially revised. A more detailed discussion will be presented elsewhere [A. J. Millis and H. Monien (unpublished)].

In addition, our results for the sum of the core and van Vleck susceptibilities for La$_{2-x}$Sr$_x$CuO$_4$ appeared with an incorrect minus sign. The correct values are $(\chi_c + \chi_{vV}) = +1.3$ states/(eV planar Cu) for fields perpendicular to the CuO$_2$ plane and $(\chi_c + \chi_{vV}) = -1.0$ states/(eV Cu) for fields parallel to it.

![Graph showing copper (Cu), oxygen (O), and yttrium (Y) relaxation rates calculated via Schwinger boson mean-field analysis of a model of two coupled antiferromagnetically correlated planes for parameters near to, but on the disordered side of, the $T=0$ magnetic transition. The left ordinate shows the Cu and O relaxation rates $1/T_1 T$ (solid lines); the right ordinate shows the ratio of the O and Y $1/T_1 T$ to the calculated spin susceptibility $\chi_s(T)$.](image)

**Baryon Asymmetry of the Universe in the Minimal Standard Model**

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On page 2836, first column, line 14, $f(\rho) = \frac{1}{\rho}$ for $\rho \ll 1$ should read $f(\rho) = \frac{3}{2} \rho$ for $\rho \ll 1$.