Spin waves in La_2CuO_4

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We calculate the antiferromagnetic spin wave dispersion in a half-filled Hubbard model for a two-dimensional square lattice, and find it to be in excellent agreement with recent high-resolution inelastic neutron scattering performed on La_2CuO_4 [Phys. Rev. Lett. **86**, 5377 (2001)]. We also study the effect of different relation dispersions of the spin wave spectrum.

9.7 cm

13.4 cm

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