Erratum

Electrical resistivity in the strong-correlation limit of the Emery model

D. Ihle¹, M. Kasner², and N.M. Plakida³

¹ Sektion Physik, Universität Leipzig, O-7010 Leipzig, Federal Republic of Germany

² Physikalisch-Technische Bundesanstalt, W-3300 Braunschweig, Federal Republic of Germany

³ Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, SU-141980 Dubna, USSR

Z. Phys. B – Condensed Matter 82, 193–197 (1991)

The curves in Fig. 1 are wrong due to a numerical error. The correct spin-fluctuation resistivity (not showing a point of inflexion) reveals a crossover from $\rho/\rho_0 = (\pi^2/3)(T/T_s)^2$ for $T \ll T_s$ ($k_B T_s = \bar{I}$, $\rho_0 = 2A/\delta$) to a linear temperature dependence for $T_s < T \ll 4\delta T_0 = \varepsilon_F/k_B$ ($T_0 \simeq 2700$ K). Some representative results are shown in the new Fig. 1. The conclusions of the paper are unchanged.

Fig. 1. Electrical resistivity in the model (1) with (12) for different values of T_s and δ (solid lines: $T_s/T_0 = 2.5 \times 10^{-2}$, dashed lines: $T_s/T_0 = 5 \times 10^{-2}$)