Erratum

Time Dependent Ginzburg-Landau Equations for Strong Coupling Superconductors

P. FULDE and K. MAKI

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Eq. (52) of our paper was obtained by making use of the results of G. Eilenberger and V. Ambegaokar, Phys. Rev. 158, 332 (1957). However those authors have pointed out recently that their paper contained an error. (Erratum, Phys. Rev. B2 1433 (1970))

As a consequence our Eq. (52) is changed into

$$\alpha = \left\{ \frac{H_{c, \text{obs}}^2}{H_{c, \text{BCS}}^2} \frac{\Delta(T)_{\text{BCS}}^2}{\Delta(T)_{\text{obs}}^2} \right\}^{-1}.$$

For Pb this implies $\alpha^{-1} = 1.2$ and the contribution of fluctuations to the conductivity is enhanced only by a factor 1.2 as compared with Aslamazov and Larkin's weak coupling result. This seems to remove some discrepancies between experiments and our theory (see for example J. E. Crow et al., Phys. Rev. Lett. 24, 371 (1970)).

Dr. P. Fulde
Institut für Theoretische Physik
der Universität Frankfurt am Main
BRD-6000 Frankfurt (Main) 1
Robert-Mayer-Straße 8—10
Germany