Susceptibility Measurements an Small Al Grains

Measured with a SQUID magnetometer

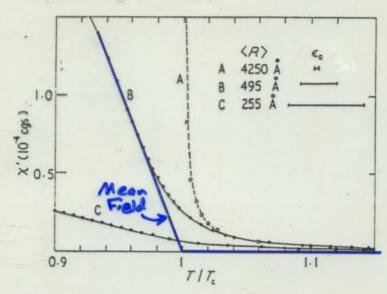


Figure 3. Measured diamagnetic susceptibility of aluminium powders with differing mean particle sizes. The full curves are the GL theory including fluctuation effects, icle distributions (after Buhrman and Halperin 1977)

$$\gamma = -\frac{1}{40\pi} \frac{\mu_0 R^2 \langle 141^2 \rangle (e^*)^2}{m^*}$$

$$5_{AR} = 16000 \text{ Å}$$

W. J. Skoepol and M. Tinkham Rep. Prog. Phys. 38, 1049 (1975).