

Landau Fermi-liquid theory for heavy-fermion compounds: II. Collective modes

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Erratum

Landau Fermi-liquid theory for heavy-fermion compounds: II. Collective modes

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Errors occurred in the following equations, of which the correct versions are given here:

$$\varepsilon_{1\alpha\beta}^{cf}(\mathbf{k}, \mathbf{r}, t) = (\varepsilon_{1\beta\alpha}^{fc}(\mathbf{k}, \mathbf{r}, t))^* = \delta_{\alpha\beta} N_u^{-1} \sum_{\gamma\mathbf{p}} \varphi(\mathbf{k}, \mathbf{p}) N_{1\gamma\gamma}^{cf}(\mathbf{p}, \mathbf{r}, t). \quad (2.7c)$$

$$i \frac{\partial}{\partial t} N_1(\mathbf{k}, \mathbf{q}, t) = N_1(\mathbf{k}, \mathbf{q}, t) \varepsilon_+ - \varepsilon_- N_1(\mathbf{k}, \mathbf{q}, t) + N_- \varepsilon_1(\mathbf{k}, \mathbf{q}, t) - \varepsilon_1(\mathbf{k}, \mathbf{q}, t) N_+ \quad (2.14)$$

$$\varepsilon_1^{ab}(\mathbf{k}, \mathbf{q}, t) = \varepsilon_1^{ab}(\mathbf{q}, \omega) \exp(-i\omega t). \quad (3.5)$$

$$\Gamma(q, \omega) = (\rho_0 N_u)^{-1} \sum_{\mathbf{k}} \frac{(\mathbf{q} \cdot \mathbf{v}_k) \cos^2 \theta_k}{(\mathbf{q} \cdot \mathbf{v}_k) - \omega} f'(E_{1k}) = \frac{\lambda}{2} \ln \left| \frac{\lambda + 1}{\lambda - 1} \right| - 1 \quad (3.10)$$

$$\begin{aligned} \varepsilon_1^f(-\sin^2 \theta_F \tan \theta_F \Gamma(q, \omega) + \beta(\omega)) + \varepsilon_1'(\sin^2 \theta_F \Gamma(q, \omega) \\ + (1 - \frac{1}{4} \omega^2 b^{-2}) A(\omega)) - \frac{\omega}{2b} \beta(\omega) \varepsilon_1'' = 0 \end{aligned} \quad (3.14b)$$

$$h_+^c(q, \omega) = \frac{1}{2} g_c \mu_B H_{1+}(q, \omega) - G_0 N_u^{-1} \sum_{\mathbf{p}} N_{1+}^f(\mathbf{p}, q, \omega) \quad (4.8)$$

The following errors also occurred. On page 461, line 7, ‘ $N_1 \equiv N_1(\mathbf{k}, \mathbf{r}, t)$ and $\varepsilon_1 \equiv \varepsilon_1(\mathbf{k}, \mathbf{r}, t)$ ’ should read ‘ $N_1 \equiv N_1(\mathbf{k}, \mathbf{q}, t)$ and $\varepsilon_1 \equiv \varepsilon_1(\mathbf{k}, \mathbf{q}, t)$ ’. On page 467, line 14, ‘ P, Q, ∇ ’ should be replaced with ‘ P, Q, V ’. On page 471, line 14, ‘in the band $E_{1k} \cdot \mathbf{v}_k$ ’ should read ‘in the band E_{1k}, \mathbf{v}_k ’.