Properties of the Scattering Amplitude in the Renormalized Lee Model and in a Relativistic Generalization.

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Two terms are missing in the equation on the lines 8 and 9 of page 293. The correct form is

$$\begin{aligned} \frac{K_{vv'}^{(+)}(q)}{E_{vv'}(q)} \alpha_2(m_V) - F_{vv'}(q) \alpha_1(m_V) + \frac{K_{vv'}^{(+)}(q)}{E_{vv'}(q)} \frac{1}{(2\pi)^3} \int \frac{d^3 q'}{2\omega'_0 2\omega'_N} \frac{2m_V}{(\omega'_0 + \omega'_N)^2 - m_V^2} + \\ + \frac{\sqrt{2m_0}}{(2\pi)^{\frac{3}{2}}} \frac{v'}{\sqrt{2\omega_0 2\omega_N} E_{vv'}(q)} + \frac{1}{(2\pi)^{\frac{3}{2}}} \int \frac{d^3 q'}{\sqrt{2\omega'_0 2\omega'_N}} \left[\frac{\sqrt{2m_0}}{E_{vv'}(q)} \sum_{\mu\mu'} \mu\mu' g_{vv'\mu\mu'}(q, q') - \right. \\ \left. - \frac{1}{2(2\pi)^{\frac{3}{2}}} \frac{F_{vv'}(q)}{m_V \sqrt{2\omega'_0 2\omega'_N}} \left(\frac{1}{(\omega'_N - \omega'_0 - m_V)^2} + \frac{1}{(\omega'_0 - \omega'_N - m_V)^2} \right) \right] = 0 ; \end{aligned}$$

this boundary condition for the amplitudes, like the nonrelativistic one (7''), is *not* homogeneous. It derives from the homogeneous condition for the operators (lines 5 and 6 of page 292) exactly in the same way as eq. (7'') derives from eq. (7').

Further, a trivial change has to be made in formula (17), and in other formulae on the same page 285, where the quantity $+i\epsilon$, appearing as a consequence of the outgoing wave condition, has to be cancelled from the denominators of the pole terms, surviving only in the integrals. The same cancellation of $+i\tau$ in the denominators of the pole terms has to be performed on page 294 for the relativistic case.