

and (9) yield

$$\eta_2 = \frac{1}{18} \left[1 + \int_0^\infty dx x \hat{\psi}'(x) \hat{G}(x) \right]. \quad (11)$$

It is not hard to evaluate the expression for $\hat{G}(x)$ and the integral in Eq. (11) analytically in the limit where a tends to infinity. Then all dependence on the cutoff function $\beta((x/a)^{1/2})$ is trivially eliminated. To leading order in $1/a$ one obtains

$$\hat{G}(x) = [x(4+x)]^{-1/2} \times \ln \left| \frac{x(3+x) + (1+x)[x(4+x)]^{1/2}}{x - [x(4+x)]^{1/2}} \right|, \quad (12)$$

$$\hat{\psi}'(x) = -2/[1+x]^3. \quad (13)$$

The value of the integral in Eq. (11) is $\frac{2}{3}$, which implies

$$\eta = \frac{1}{54} \epsilon^2 + O(\epsilon^3), \quad (14)$$

in agreement with the result obtained previously by other techniques.^{4,5}

For general values of the parameter a Eqs. (6)

and (11) can be evaluated numerically. We have done this for two choices of the cutoff function: $\beta(k) = 2k^2$ and $\beta(k) = k^4$. In each case the result of Eq. (14) is obtained. Since there is nothing special about these choices of $\beta(k)$ we conclude that, as expected, η is independent of the redundant parameters present in Wilson's incomplete-integration renormalization-group approach.

*Work supported in part by the National Science Foundation through Grant No. GH-36882.

¹P. Shukla and M. S. Green, Phys. Rev. Lett. 33, 1263 (1974). We thank the authors for sending us a report of this work prior to publication.

²K. G. Wilson and J. Kogut, Phys. Rep. 12C, 75 (1974).

³F. J. Wegner, J. Phys. C: Proc. Phys. Soc., London 7, 2098 (1974). See also G. Jona-Lasinio, in *Collective Properties of Physical Systems*, edited by B. Lundqvist and S. Lundqvist (Academic, New York, 1973), p. 38.

⁴K. G. Wilson, Phys. Rev. Lett. 28, 548 (1972).

⁵F. J. Wegner and A. Houghton, Phys. Rev. A 8, 401 (1973).

ERRATUM

NONLINEAR OPTICAL PROCESSES BY VAN DER WAALS INTERACTION DURING COLLISION. S. E. Harris and D. B. Lidow [Phys. Rev. Lett. 33, 674 (1974)].

The following papers whose content partially anticipates and overlaps that of our recent Letter have been brought to our attention: L. I. Gudzenko and S. I. Yakovlenko, Zh. Eksp. Teor. Fiz. 62, 1686 (1972) [Sov. Phys. JETP 35, 877 (1972)]; S. I. Yakovlenko, Zh. Eksp. Teor. Fiz. 64, 2020 (1973) [Sov. Phys. JETP 37, 1019 (1973)].