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* On leave from Laboratoire Leprince-Ringuet, Ecole Polytechnique, Paris.

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¹ Yekutieli, Kaplon, and Hoang, Phys. Rev. **101**, 506 (1956).

² The possibility that we observe an internally converted radiative decay mode of $K_{\mu 2^+} \rightarrow \mu^+ + 2e + \nu$ is ruled out in the fifth paragraph by the fact that the missing mass is finite.

³ The blob density is normalized to that of 1.5-Bev π^- mesons.

Errata

Possibility of a Zener Effect, GREGORY H. WANNIER [Phys. Rev. **100**, 1227 (1955)]. Additional study of the problem treated reveals that the speculation following the formal development of band functions is not correct. To justify the speculation, one must be able, for sufficiently small, but nonvanishing electric field, to construct Bloch type functions $b_q(x; k)$ which are derived from the equation stated and which are periodic and continuous in k , with continuous derivative (since the operator $\partial/\partial k$ enters in the defining equation). One verifies immediately that the free-electron wave functions e^{ikx} are not of this type: as written they are not periodic in the reciprocal lattice, and if periodicity is artificially imposed the derivative with respect to k acquires discontinuities. We have been able to prove that this same situation prevails for the Bloch bands due to a periodic potential when a uniform electric field is superimposed, however small. Either one must assume that the periodicity in k is lost, or else one finds that the derivative with respect to k ceases to be continuous. It follows from this that $\psi_q(x, t; k)$ is actually modified after traversing in time a quasi-period of k , and that, hence, the Zener effect exists. It is not yet known whether a quantitative evaluation of his proof yields agreement with his formula.

Nonelastic Scattering Cross Sections for Fast Neutrons, H. L. TAYLOR, O. LÖNSJÖ, AND T. W. BONNER [Phys. Rev. **100**, 174 (1955)]. The value of T_0 given at the bottom of the second column of page 177 as " $T_0 = e^{-N\sigma_0}$ " was incorrect and should read " $T_0 = e^{-N\sigma_{tr}}$, where σ_{tr} is the transport cross section." All computations were made using the correct expression for T_0 .

Polarization Effects of the Brightness Waves of Electroluminescence, FRANK MATOSSI [Phys. Rev. **98**, 434 (1955)]. Equation (7) should be replaced by

$$\bar{i} = \frac{1}{2}\epsilon[\exp(-A_1 N t) - \exp(-A_1 m t)] + \frac{1}{2}\beta[\exp(-A_1 m t) - 1].$$

From this it follows that

$$t_m = (1/A_1 m) \ln[(m/N)(1 - \beta/\epsilon)].$$

The last term of C' of Eq. (15) should read $-a(b-g)(kb-gd)$ instead of $-ak(b-g)^2$. From this there follows a new Eq. (3):

$$\sigma^2 = \epsilon^2 \frac{4\omega^2 A_1^2 m^4 + \omega^2 m^2 [16\omega^4 + A_1^2 (A_2 - A_1)^2 N^2 m^2]}{[16\omega^4 + 4\omega^2 A_1^2 m^2 + A_1^2 A_2^2 N^2 m^2]^2},$$

$$q/p = [4\omega^2 - A_1(A_2 - A_1)Nm]/2\omega A_1 m,$$

with appropriate changes in Eqs. (4a), (5), and (6). We note only that

$$\omega_0 = \frac{1}{2}[(A_2 - A_1)A_1 Nm]^{\frac{1}{2}};$$

$$\omega_m \cong 1.25 A_1 (Nm)^{\frac{1}{2}} \quad \text{for } A_1 = A_2.$$

The general conclusions of the paper are not affected by these corrections.

Recently, Steinberger *et al.*¹ have disputed the validity of the proposed theory on the grounds that it leads, for ac fields, to a ripple pattern with two peaks per period of the field while in some important cases only one peak is observed. But the appearance of two peaks is not a necessary consequence of the general theory. It depends on the special form $\epsilon \cos^2 \omega t$ of the additional terms of Eq. (2). This form was chosen just for the fact that it accounts for the then only observed double periodicity of the ripple pattern. Any other function $f(t)$ instead of $\cos^2 \omega t$ could have been used, which would give the desired result about the ripple pattern without altering the principle of the theoretical approach and the general conclusions. Of course, the specific formulas, for instance the dependence of σ on ω , would be changed.

¹ Steinberger, Low, and Alexander, Phys. Rev. **99**, 1217 (1955).

Masses of Light Nuclei, J. E. DRUMMOND [Phys. Rev. **97**, 1004 (1955)]. The error in the ratio of the three sulfur masses given by Geschwind and Gunther-Mohr (reference 2) was incorrectly quoted by the author. The value $(S^{33} - S^{32})/(S^{34} - S^{32}) = 0.500714 \pm 0.000003$ should have read 0.500714 ± 0.000030 . This is confirmed in a later full report.¹

¹ Geschwind, Gunther-Mohr, and Townes, Revs. Modern Phys. **26**, 444 (1954).

Perturbation Calculation of the Elastic Scattering of Electrons by Hydrogen Atoms, SIDNEY BOROWITZ [Phys. Rev. **96**, 1523 (1954)]. There are several errors appearing in the subject paper. In the following dis-