ERRATUM and ADDENDUM to "Relativistic Radial Equations for Two Spin-1/2 Particles with a Static Interaction: Part Two" by W. Kluźniak, W. Królikowski and J. Rzewuski, *Acta Phys. Pol.* B9, 43 (1978).

In the radial equations listed in Table II (derived in Appendix from the relativistic Breit equation (1) with the static potential (A1)) there are errors in terms containing v'(r) (i. e., in the Breit-like terms). The correct form is

$$\frac{d}{dr} f_2 + \frac{1}{2} (\kappa^{(1)} - \kappa^{(2)}) f_4 + \frac{1}{2} (\varepsilon - v) f_3 = 0,$$

$$-\left(\frac{d}{dr} + \frac{2}{r}\right) f_3 + \frac{1}{2} (\kappa^{(1)} + \kappa^2) f_1 + \frac{1}{2} (\varepsilon - v - 2v') f_2 + \frac{i\sqrt{j(j+1)}}{r} g_4 = 0,$$

$$\frac{1}{2} (\kappa^{(1)} - \kappa^{(2)}) f_3 + \frac{1}{2} (\varepsilon - v) f_4 + \frac{i\sqrt{j(j+1)}}{r} g_2 = 0,$$

$$\frac{1}{2} (\kappa^{(1)} + \kappa^{(2)}) f_2 + \frac{1}{2} (\varepsilon - v + 2v') f_1 = 0,$$

$$\left(\frac{d}{dr} + \frac{1}{r}\right) g_2 + \frac{1}{2} (\kappa^{(1)} - \kappa^{(2)}) g_4 + \frac{1}{2} (\varepsilon - v - v') g_3 = 0,$$

$$-\left(\frac{d}{dr} + \frac{1}{r}\right) g_3 + \frac{1}{2} (\kappa^{(1)} + \kappa^{(2)}) g_1 + \frac{1}{2} (\varepsilon - v - v') g_2 - \frac{i\sqrt{j(j+1)}}{r} f_4 = 0,$$

$$\frac{1}{2} (\kappa^{(1)} - \kappa^{(2)}) g_3 + \frac{1}{2} (\varepsilon - v + v') g_4 - \frac{i\sqrt{j(j+1)}}{r} f_2 = 0,$$

$$\frac{1}{2} (\kappa^{(1)} + \kappa^{(2)}) g_2 + \frac{1}{2} (\varepsilon - v + v') g_1 = 0.$$

The second independent subsystem of eight equations can be obtained by the substitution $\kappa^{(1)} \to -\kappa^{(1)}$. The total parity $P = \eta \beta^{(1)} \beta^{(2)} (-1)^l$, where $\eta^2 = 1$, has the eigenvalue $P = \eta$ for components f and g in the first subsystem of equations and the eigenvalue $P = -\eta$ for f and g in the second. So, in general there is a splitting between energy spectra following from both subsystems of equations.

It is known that the Breit-like terms in the relativistic Breit equation are to be handled only by the first-order perturbation calculation, unless the potential is projected on the positive-energy particle and antiparticle subspace as follows automatically from the Bethe-Salpeter equation.

In consequence of the correction in Table II, Eq. (A5) corresponding to j=0 should formally read

$$\frac{d}{dr}f_2 + \frac{1}{2} \left[\varepsilon - v - \frac{(\kappa^{(1)} - \kappa^{(2)})^2}{\varepsilon - v} \right] f_3 = 0.$$

$$- \left(\frac{d}{dr} + \frac{2}{r} \right) f_3 + \frac{1}{2} \left[\varepsilon - v - 2v' - \frac{(\kappa^{(1)} + \kappa^{(2)})^2}{\varepsilon - v + 2v'} \right] f_2 = 0.$$

The same correction as in Table II should be also made in Table I published in the Trieste preprint IC/77/71 (1977).