ERRATA ===

Erratum to: "Equations of Relativistic and Quantum Mechanics and Exact Solutions of Some Problems" [Journal of Contemporary Physics (Armenian Academy of Sciences) 53, 1 (2018)]

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In page 7, the text:

This is a property of invariance of the representation of the four-dimensional momentum **P** through the velocity of the reference system $\beta' = \mathbf{V}/c$.

Should be read as follows:

This is a property of invariance of the representation of the four-dimensional momentum **P** in terms of the velocity of the particle $\beta = \mathbf{v}/c$.

If to consider the representation of the four-dimensional momentum of an immobile particle with a mass *m* by transition into the reference frame moving with the velocity $\beta' = \mathbf{V}/c$, for the four-dimensional particle momentum **P** we have *m*

$$\mathbf{P} = \begin{pmatrix} \varepsilon, & \mathbf{p} \end{pmatrix} = \begin{pmatrix} \frac{mc}{\sqrt{1 - \beta'^2}}, & \frac{mc}{\sqrt{1 - \beta'^2}} \beta' \end{pmatrix}, \quad \mathbf{P}^2 = \varepsilon^2 - \mathbf{p}^2 = (mc)^2.$$
(22)

This is a property of invariance of the representation of the four-dimensional momentum **P** through the velocity of the reference system $\beta' = \mathbf{V}/c$.