



Soviet-era science, translated into English

The following corrections must be made:

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Abstract

Full Text

ERRATUM

In my article (V. A. Prokof' ev, "Equations of relativistic radiation hydrodynamics"), published in *DAN*, vol. 140, no. 5, 1961, when the formulas in part of the equations were retyped, the notation was changed, as a result of which in some of them p is taken to mean the residual rest mass, while in three equations the quantity $p' = \rho\theta$.

The following corrections must be made:

1. In the last equations of each of systems (12), (13), and (14), instead of ρ one should write $\rho\theta$, or else, without changing the remaining terms:

- a) in the third equation of system (12), two terms should be added to the left-hand side:

$$+\frac{\rho\theta^2}{c^2}v_\alpha\frac{dv_\alpha}{dt} + \frac{v^2}{c^2}\frac{\partial\rho}{\partial t};$$

- b) in the last square bracket of the last equation of system (13), the terms

$$\frac{\rho}{2}\frac{dU}{dt} - \frac{\rho}{v^2}v_\alpha\frac{dv_\alpha}{dt};$$

should be omitted;

- c) in the last square bracket of the last equation of system (14), the terms

$$\frac{\rho}{2}\frac{dU}{dt} - \frac{\rho}{v^2}\mathbf{v}\frac{d\mathbf{v}}{dt}.$$

should be omitted.

2. In the first equation of system (14), the minus sign before the operator $2\rho\frac{d}{dt}$ should be replaced by a plus sign.

V. A. Prokof' ev

Note: Figure translations are in progress. See original paper for figures.

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