

ERRATUM

In the paper by Darwin L. Shannon, entitled "Mach's principle and the reciprocal symmetry of nature" [*Found. Phys. Lett.* **1**, 245 (1988)], the following corrections should be made:

- (1) Page 249, Eq. 1.5^{'''} should read:

$$g_{\mu\nu}g^{\mu\nu} = g'_{\mu\nu}g_{\mu\nu} = +n \quad (\text{sum over } \mu, \nu \text{ in } n \text{ dimensions}),$$

- (2) Page 250, line 16 should read: " $\mu, \nu = 0, \dots, 3$. Thus, one could..."

- (3) Page 251, line 38 (nine lines from the bottom) should read: "family of solutions for $s^2 = \gamma$ (constant) = $\gamma \Sigma_{\mu} c_{\mu}^2$,"; see "Mach's principle and unification," forthcoming.

- (4) Page 254, Eq. 1.13 should have the minus sign removed from the last term on the right.

- (5) Page 256, Eq. 2.5 should read:

$$\frac{d^2}{dx_{\mu} dx^{\mu}} = \sum_{\mu} \frac{d^2}{ds_{\mu}^2} = \partial^{\mu} \partial_{\mu}, \quad (2.5)$$

- (6) Page 257, Eq. 2.6 should read:

$$L = \frac{1}{2} \frac{d\Phi^{\dagger}}{dx_{\mu}} \frac{d\Phi}{dx^{\mu}} - U(\Phi, \Phi^{\dagger}), \quad (2.6)$$

- (7) Page 260, Eq. 2.12' should read:

$$\gamma x_{i(+)} x_{i(-)} = s_i^2 = \gamma X_{0i}^2 = \gamma \text{ (constant)}. \quad (2.12')$$

- (8) Page 260, the sentence following Eq. 2.12' should read: "In the usual sense, one might interpret that, say, $\gamma x_{i(-)} = x_i$ and $x_{i(+)} = x^i$, for $i = 1, 2, \dots, n-1$ in n dimensions (with time"

- (9) Page 263, line 17 should read: "around the geometrical mean radius, $\sigma = \sqrt{2\rho\lambda'_{ce}}$. Similarly,"

- (10) Page 266, Eq. 3.17 is missing the equation number [i.e., (3.17)].

Without exception, these corrections may be considered as typographical in nature, in that they require no accompanying wording changes. As indicated, the changes associated with (3), (6), and (7) are relatively minor and do not effect the content or conclusions of the paper. However, they are significant in that they make the explicit mathematical connection with the usual Lorentz transformations. Furthermore, a forthcoming paper [referred to under point (3) above] provides the rationale for these changes.